EXPANDED TRIP REPORT
FOR
JOHN J RILEY
WOBURN, MASSACHUSETTS

Prepared For:
U.S. Environmental Protection Agency
Region I
Office of Site Remediation and Restoration
1 Congress Street, Suite 1100
Boston, MA 02114-2023

CONTRACT NO. 68-W-00-097

CERCLIS NO. MAD001035872
STATE ID NOS. RTN 3-0013444
(JJ Riley/Beatrice)
& RTN 3-0000482
(John J. Riley Co. Beatrice)
TDD NO. 04-05-0149
TASK NO. 8152
DC NO. A-4683

Submitted By:
Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team 2000 (START)
37 Upton Drive
Wilmington, MA 01887

21 September 2004

21 September 2004

EPA REGION I SUPERFUND PROGRAM
TRIP REPORT/CHECKLIST

Inspection Information

Site Name: John J Riley
Address: Salem Street
Town: Woburn **State:** Massachusetts
CERCLIS No. MAD001035872 **TDD No.:** 04-05-0149
State ID Nos.: RTN 3-0013444 (JJ Riley/Beatrice) and
RTN 3-0000482 (John J. Riley Co. Beatrice)

Date of On-Site Reconnaissance: 30 April 2004
Time of On-Site Reconnaissance: 0715 hours (hrs) to 1300 hrs
Weather Conditions: Sunny, mid-70s °Fahrenheit (°F)

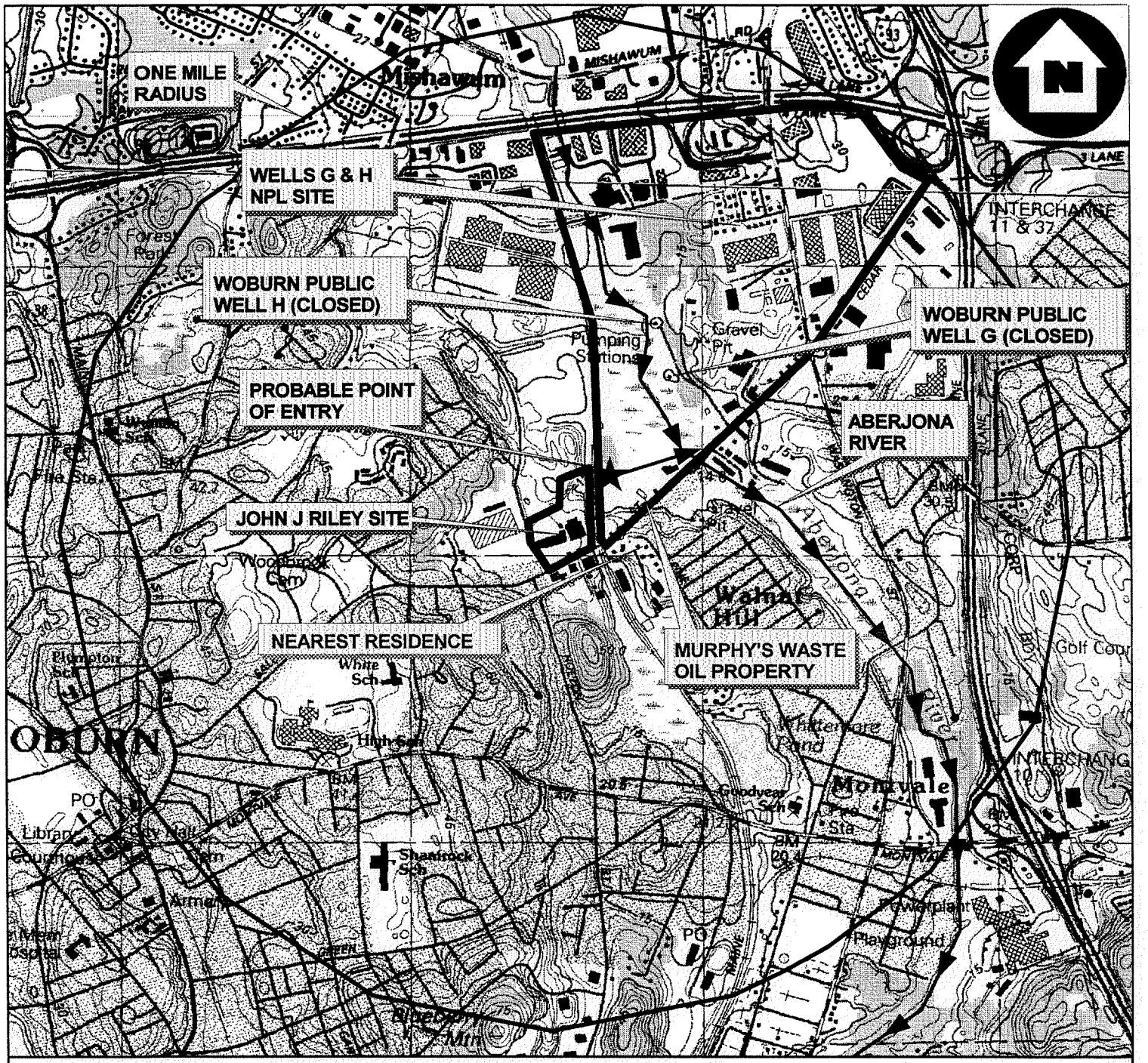
Date of Sampling Trip: 22 June 2004
Time of Sampling Trip: 0705 hrs to 1715 hrs
Weather Conditions: Partly cloudy, mid-60s °F

Site Status at Time of Inspection:
(✓) ACTIVE
( ) INACTIVE
( ) ABANDONED

Introduction/Trip Objective: The John J Riley (JJ Riley) site is located in the Aberjona River watershed and just west of the Wells G & H National Priority List (NPL) Site. In 2003, as part of on-going remedial investigations of the Wells G & H NPL Site, the U.S. Environmental Protection Agency (EPA) conducted an ecological risk assessment of the watershed. Part of the risk assessment included the collection of sediment samples from wetlands downstream of the JJ Riley site. Analysis of these sediment samples documented the presence of elevated concentrations of metals in the sediment, such as arsenic and chromium. The objective of the JJ Riley Site Reassessment (SR) sampling event was to collect appropriate analytical data to confirm or identify hazardous substances/source areas on the JJ Riley property.

Comments: The JJ Riley site is located along Salem Street in the Town of Woburn, Middlesex County, Massachusetts (MA). The geographic coordinates of the site, as measured from its approximate center, are 42° 29' 26.1" north latitude and 71° 07' 37.6" west longitude (Figure 1).

The JJ Riley site comprises 15.8 acres and is located approximately 2,500 feet (ft) west of the Aberjona River, 3,350 ft northeast of Woburn High School, and 2,700 ft northwest of Whittenmore Pond. In June 1994, the Maggiore Companies (a property developer), subdivided the site into six lots, which were identified by the Town of Woburn Tax Assessor's as Lot Nos. 11 through 16.



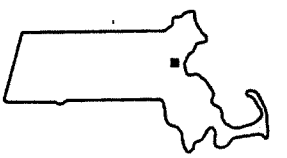
BASE MAP IS A PORTION OF THE FOLLOWING 7.5 X 15 ' U.S.G.S. QUADRANGLE(S):

Boston North, MA Provisional Edition 1985; Reading, MA Provisional Edition 1987

0.2 0 0.2 0.4 0.6 0.8 1 1.2 1.4 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 Feet

0.5 0 0.5 1 1.5 2 Kilometers



QUADRANGLE LOCATION

SITE LOCATION MAP

JOHN J RILEY
SALEM STREET
WOBURN, MASSACHUSETTS

WESTON SOLUTIONS
Restoring Resource Efficiency

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE:
04-05-0149	T. Benton	12/29/2003

FILE NAME: E:\ARC_APRS\START2\JJ Riley.APR

FIGURE 1

Inspection Information (Concluded)

In 2003, the Woburn Tax Assessors's office revised their tax maps, and the former JJ Riley site is now depicted on Woburn Tax Assessors Map No. 37 as Lot Nos. 3, 4, 7 and 8. These four lots (Nos. 3, 4, 7, and 8) are all currently owned by separate commercial businesses. Lot No. 3 is owned by the Robert M. Duffy Trust and is operated under the name of Kraft Power. Lot No. 4 is currently owned by the Robert B. Krueger Trust and is operated under the name of New England Industrial Truck. Lot No. 7 is owned and operated by Organix LLC (Organix). Lot No. 8 is currently owned by Beryl E. Rotondo and is operated under the name of Charl's Ice Cream (Figure 2 and Figure 3).

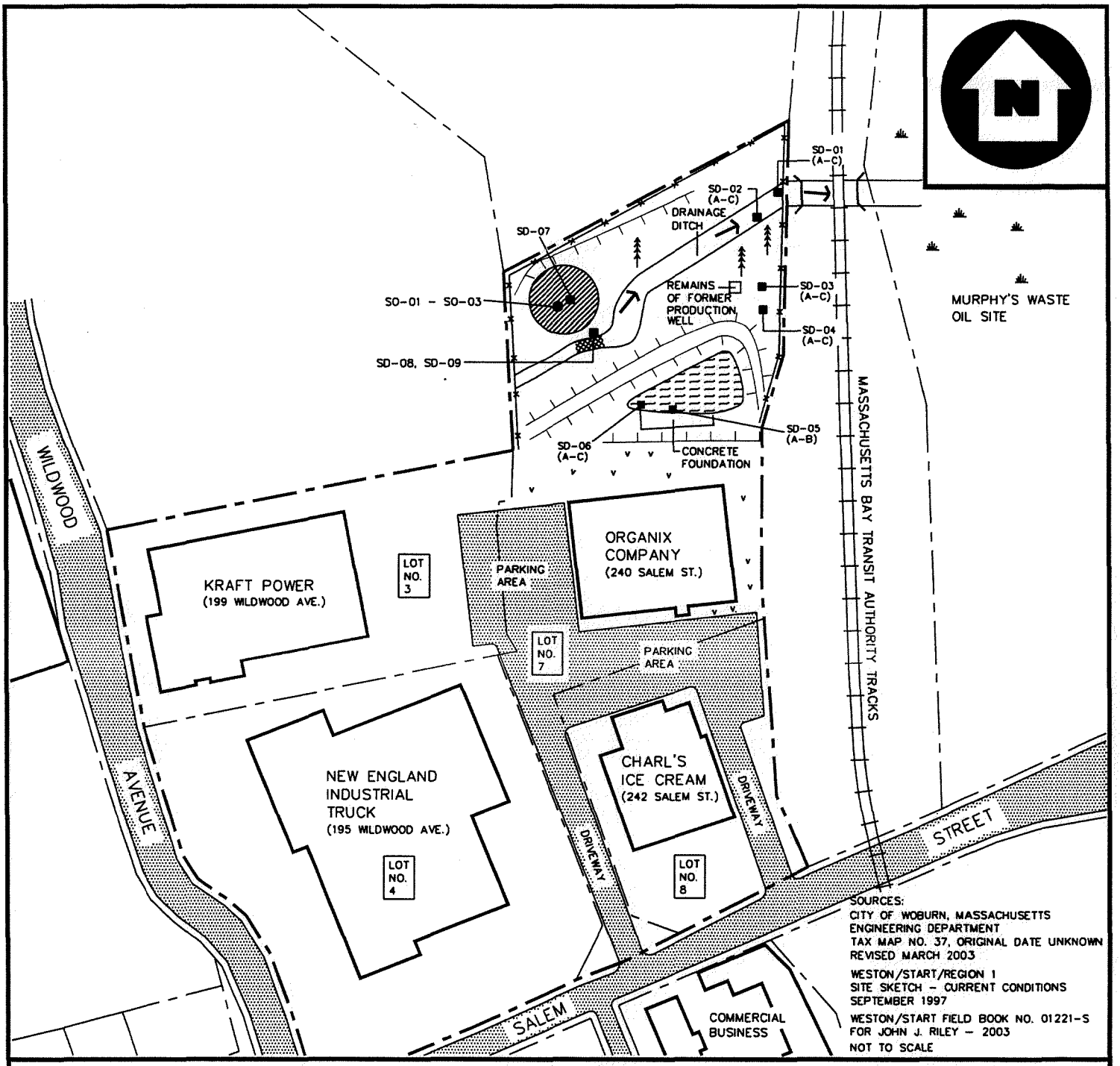
Located to the east of the JJ Riley site are railroad tracks operated by the Massachusetts Bay Transit Authority (MBTA). A portion of the property east of the MBTA tracks was owned/operated by previous owners of the JJ Riley site. However, that land is currently owned by the Wildwood Conservation Trust and is considered part of the Wells G & H NPL Site.

It is unknown to the Weston Solutions, Inc. Superfund Technical Assessment and Response Team 2000 (START) what the JJ Riley site was used for prior to 1915. From 1915 to 1989, the Riley Company, owned by Mr. John J. Riley, operated a tannery on the site. From December 1978 to January 1982, the company continued operations on site but was owned by Beatrice Foods, Inc. Mr. Riley reacquired the business from Beatrice Foods, Inc. in 1983. Tannery operations continued until 1989, at which time all equipment was removed and operations ceased. In June 1994, the Maggiore Companies, a property developer, subdivided the site into six lots, which were later subdivided into the current four lots of the site.

Personnel Performing Inspection

Agency/Organization	Names	Program
(✓) EPA Region I:	Mr. Joseph LeMay [1,2]	Remedial Project Manager
(✓) EPA Region I Contractor:	Mr. Timothy Benton [1,2]	START 2000*
	Mr. John Kelly [1,2]	START 2000
	Mr. Paul Schrot [2]	START 2000
	Mr. Ryan Manderbach [2]	START 2000
	Ms. Jessica Burkhamer [2]	START 2000
	Mr. Craig Trimbur [2]	START 2000
( ) State:		
(✓) Other:	Mr. David Sullivan [1]	TRC Companies, Inc. (Project Manager)
	Mr. Jim Merrill [1]	Massachusetts Bay Commuter Railroad Company (Project Engineer)

[1] Personnel present for the 30 April 2004 on-site reconnaissance.
[2] Personnel present for the 22 June 2004 source and sediment sampling event.
* START 2000 = Weston Solutions, Inc., Superfund Technical Assessment and Response Team.



LEGEND

- DRAINAGE SWALE (FLOW DIRECTION)
- PAVEMENT
- PROPERTY LINE
- WOODED AREA
- GRASS
- WETLANDS
- RAILROAD TRACKS
- FENCE LINE
- CULVERT
- TOP OF SLOPE / EMBANKMENT (TICK MARKS IN DOWNSLOPE DIRECTION)
- STORMWATER DETENTION POND
- START SEDIMENT SAMPLE LOCATIONS
- START SOURCE SAMPLE LOCATION
- AREA OF EXPOSED SOLID WASTE
- AREA OF OBSERVED WASTE AND BLUISH-GRAY SOIL

SITE SKETCH AND START SAMPLE LOCATION SKETCH

JOHN J RILEY

228 SALEM STREET

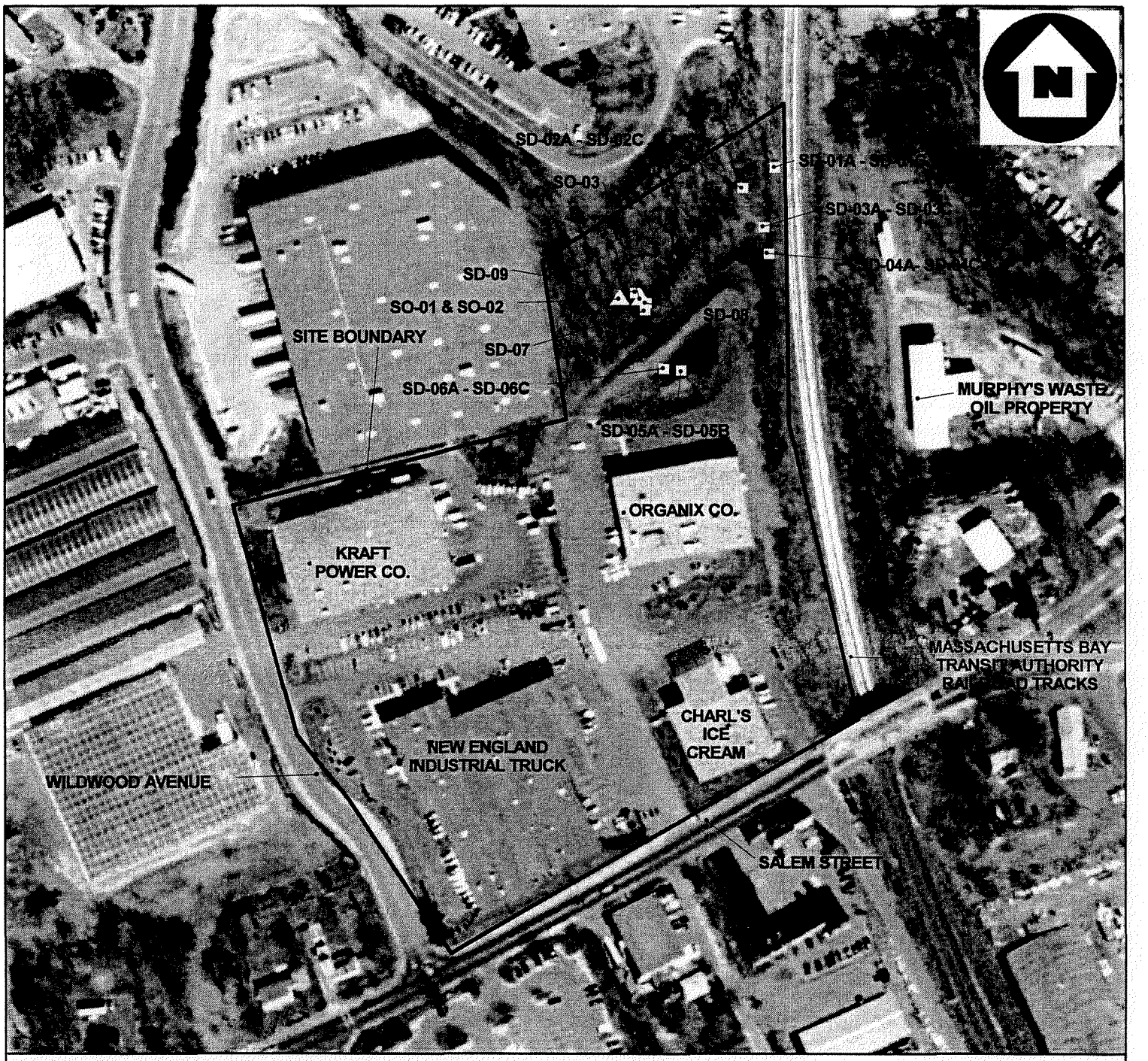
WOBURN, MASSACHUSETTS

WESTON SOLUTIONS®

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE
04-05-0149	W. SHAW	6/1/04

FILE NAME:	
S:\04050149\FIG2.DWG	FIGURE 2

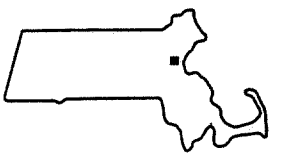


BASE AERIAL PHOTOGRAPH IS PART OF THE FOLLOWING 0.5-METER RESOLUTION DIGITAL ORTHOGRAPHIC QUARTER QUADRANGLE: MASSACHUSETTS 233914

0.02 0 0.02 0.04 0.06 0.08 0.1 0.12 0.14 Miles

0.05 0 0.05 0.1 0.15 0.2 Kilometers

100 0 100 200 300 400 500 600 700 Feet



QUADRANGLE LOCATION

START SAMPLE LOCATION MAP

JOHN J RILEY
SALEM STREET
WOBURN, MASSACHUSETTS

WESTON SOLUTIONS
Restoring Resource Efficiency

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE:
04-05-0149	T. BENTON	14 JULY 2004

FILE NAME: E:\ARC_APRS\MA GIS\JOHN J RILEY.APR

FIGURE 3

Site Ownership-Current Owner

Name: Organix LLC* **Telephone:** (781) 932-4142
Contact: Mr. Peter Meltzer
Address: 240 Salem Street (Lot No. 7)
Woburn, Massachusetts 01801

Name: W.A. Kraft Corporation **Telephone:** (781) 938-9100
(Robert M. Duffy Trust)
Address: 199 Wildwood Avenue (Lot No. 3)
Woburn, Massachusetts 01801

Name: New England Industrial Truck **Telephone:** (508) 752-0107
(Robert B. Krueger Trustee)
Address: 195 Wildwood Avenue (Lot No. 4)
Woburn, Massachusetts 01801

Name: Charl's Ice Cream **Telephone:** (617) 935-6611
(Mr. Beryl E. Rotondo)
Address: 242 Salem Street (Lot No. 8)
Woburn, Massachusetts 01801

* Property on which sampling was conducted.

On-Site Sampling Trip: Brief Chronology

Details of the site visit are included in the site observations/concerns section.

On-Site Reconnaissance: 30 April 2004

0715 hrs START personnel Mr. Timothy Benton and Mr. John Kelly arrived at the JJ Riley site.

0730 hrs START personnel arrived at the Murphy's Waste Oil site, which is located east and downgradient of the JJ Riley site, and met Mr. Joseph LeMay, EPA Remedial Project Manager (RPM); Mr. David Sullivan of TRC Companies, Inc. (TRC); and Mr. Jim Merrill of the Massachusetts Bay Commuter Railroad Company (MBCR). START personnel spoke with Mr. LeMay and Mr. Sullivan about the history of the Murphy's Waste Oil site, including sampling activities conducted to date.

0740 hrs Mr. Kelly, START Site Health and Safety Coordinator (SHSC), completed calibration checks and established site ambient background conditions with air monitoring instruments.

0750 hrs Mr. Kelly, START SHSC, conducted a tailgate health and safety meeting with START personnel.

On-Site Sampling Trip: Brief Chronology (Continued)

0755 hrs A Murphy's Waste Oil representative let personnel conducting the site reconnaissance onto the Murphy's Waste Oil site. Mr. LeMay showed START personnel where sediment samples had been previously collected in wetlands on the northern portion of the Murphy's Waste Oil site.

0840 hrs START personnel, accompanied by Mr. LeMay, Mr. Sullivan, and Mr. Merrill, departed the Murphy's Waste Oil site.

0850 hrs START personnel, Mr. LeMay, Mr. Sullivan, and Mr. Merrill arrived at the Organix portion of the JJ Riley site. Once on site, all involved conducted a walkthrough of the northern, wooded portion of the Organix property.

0940 hrs Mr. LeMay, Mr. Sullivan, and Mr. Merrill departed the JJ Riley site. START personnel remained on site to take photographs and record Global Positioning System (GPS) points of proposed sample locations.

1130 hrs START personnel departed the site. The GPS unit was not working properly, so START personnel traveled back to the START office in Wilmington, MA to obtain another unit.

1230 hrs START personnel arrived at the JJ Riley site to record proposed sample locations and other pertinent points on the property with a GPS unit.

1300 hrs START personnel completed the on-site reconnaissance and departed the site.

Sampling Trip: 22 June 2004

0705 hrs START personnel Mr. Benton, Mr. Kelly, Mr. Paul Schrot, Mr. Ryan Manderbach, Mr. Craig Trimbur, and Ms. Jessica Burkhamer arrived at the JJ Riley site to conduct source and sediment sampling activities.

0710 hrs Mr. Schrot, START SHSC, conducted a tailgate health and safety meeting with all START personnel.

0715 hrs START personnel began preparing the decontamination area and the appropriate sampling equipment.

0720 hrs START personnel Mr. Benton and Mr. Trimbur completed calibration checks and documented site ambient background conditions with air monitoring instruments.

0740 hrs EPA RPM Mr. LeMay arrived on site.

On-Site Sampling Trip: Brief Chronology (Continued)

0745 hrs EPA RPM Mr. LeMay discussed the site history and proposed sampling activities with representatives of Organix.

0805 hrs START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-01A from a depth of 0 to 1 ft below ground surface (bgs) from the northeastern portion of the Organix property. The sample was collected from the easternmost section of the drainage ditch.

0825 hrs START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-01B from a depth of 1 to 2 ft bgs from the northeastern portion of the Organix property. The sample was collected from the easternmost section of the drainage ditch. In addition, Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-02A from a depth of 0 to 1 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 50 ft southwest of samples SD-01A through SD-01C.

0835 hrs START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-01C from a depth of 2 to 3 ft bgs from the northeastern portion of the Organix property. The sample was collected from the easternmost section of the drainage ditch. In addition, Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-02B from a depth of 1 to 1.5 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 50 ft southwest of samples SD-01A through SD-01C.

0845 hrs EPA RPM Mr. LeMay departed the site.

0850 hrs START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-02C from a depth of 2 to 3 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 50 ft southwest of samples SD-01A through SD-01C.

0935 hrs START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-04A from a depth of 0 to 1 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 40 ft south of samples SD-03A through SD-03C.

0945 hrs The pre-preserved vials for the volatile organic compound (VOC) fraction of some of the sediment samples effervesced. Consequently, START personnel collected two 5-gram Encore® samplers for the VOC fraction, where appropriate.

0950 hrs START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-03A from a depth of 0 to 1 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 20 ft east of the former production well remains on the property.

On-Site Sampling Trip: Brief Chronology (Continued)

0955 hrs	START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-04B from a depth of 1 to 2 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 40 ft south of samples SD-03A through SD-03C.
1000 hrs	START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-03B from a depth of 1 to 2 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 20 ft east of the former production well remains on the property.
1020 hrs	START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-04C from a depth of 2 to 3 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 40 ft south of samples SD-03A through SD-03C.
1100 hrs	START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-03C from a depth of 2 to 3 ft bgs from the northeastern portion of the Organix property. The sample was collected approximately 20 ft east of the former production well remains on the property.
1200 hrs	START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-06A from a depth of 0 to 1 ft bgs from the southwest side of the stormwater detention pond in the area of the former tannery building foundation.
1210 hrs	START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-05A from a depth of 0 to 1 ft bgs from the south side of the stormwater detention pond in the area of the former tannery building foundation.
1225 hrs	START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-06B from a depth of 1 to 2 ft bgs from the southwest side of the stormwater detention pond in the area of the former tannery building foundation.
1240 hrs	START personnel Mr. Trimbur and Ms. Burkhamer collected sediment sample SD-05B from a depth of 1 to 2 ft bgs from the south side of the stormwater detention pond in the area of the former tannery building foundation.
1302 hrs	START personnel Mr. Kelly and Mr. Manderbach collected sediment sample SD-06C from a depth of 2 to 2.6 ft bgs from the southwest side of the stormwater detention pond in the area of the former tannery building foundation.
1355 hrs	START member Mr. Manderbach collected sediment sample SD-07 from a depth of 0 to 0.5 ft bgs from an area of exposed solid waste located on the northwestern portion of the Organix property.

On-Site Sampling Trip: Brief Chronology (Concluded)

1410 hrs START member Mr. Trimbur collected sediment sample SD-09 from a depth of 0 to 0.5 ft bgs from the edge of the area of exposed solid waste located on the northwestern portion of the Organix property.

1415 hrs START member Ms. Burkhamer collected sediment sample SD-08 from a depth of 0 to 0.5 ft bgs from the edge of the area of exposed solid waste located on the northwestern portion of the Organix property.

1431 hrs START member Mr. Kelly collected source sample SO-01 from a black sludge material located in the area of exposed solid waste in the northwestern section of the Organix property.

1441 hrs START member Mr. Kelly collected source sample SO-02 from a black sludge material located on the edge of the waste pile in the northwestern section of the Organix property.

1523 hrs START personnel Mr. Kelly and Mr. Manderbach collected SO-03 from leather scraps observed throughout the area of exposed solid waste on the northwestern portion of the Organix property.

1715 hrs START personnel departed the site.

Site Characteristics
Quantities/Extent/Details

( ) Cylinders:
(✓) Drums: START personnel observed two 55-gallon drum carcasses on the northeastern portion of the property. In addition, 55-gallon drum and 5-gallon drum carcasses were observed in the area of exposed solid waste located on the northwestern portion of the Organix property.
(✓) Lagoons: A stormwater detention pond was observed by START personnel in the central portion of the Organix property. The stormwater detention pond is located adjacent to (north of) the remains of a pre-existing building foundation. START assumes that the foundation was part of a former tannery building. The stormwater detention pond has culverts that presumably drain into the drainage ditch, located on the northern portion of the property, during heavy periods of rain.
( ) Tanks:
- **( ) Aboveground:**
- **( ) Belowground:**

( ) Asbestos:
( ) Piles:
(✓) Stained Soil: START personnel observed an approximately 12-inch layer of bluish-gray-stained soil on the edge of the area of exposed waste, located on the northwestern portion of the Organix property.

Site Characteristics
Quantities/Extent/Details (Concluded)

( ) Sheens:
( ) Stressed Vegetation:
( ) Landfill:
( ) Leachate seeps
(✓) Population in Vicinity: Four active commercial businesses currently operate on the JJ Riley site. START personnel assume that approximately 100 workers are working within the four active businesses at any given time. There are no on-site residents associated with the JJ Riley site.
(✓) Distance to nearest residence: The nearest private residence is located at 250 Salem Street, which is approximately 200 ft south of the property.
(✓) Land use: **( ) Industrial** **(✓) Commercial** **( ) Residential**
( ) Rural **( ) Agricultural**
(✓) Wells:
( ) Drinking:
(✓) Monitoring: A number of monitoring wells have been installed on the JJ Riley site as part of previous investigations. However, due to the development of the property, no monitoring wells are known by START personnel to still exist.
(✓) Other: Two production wells were used on the site during tannery operations. The remains of one of the production wells are present in the northeastern portion of the Organix property. The remains of the other production well are located east of the MBTA railroad tracks on the Wildwood Conservation Trust property.

START personnel observed an area of exposed waste located on the northwestern portion of the Organix property. The area of exposed waste contained leather scraps, broken bottles, empty canisters, and a black sludge/hardened tar-like material. In addition, on the edge of the area of exposed waste, which abuts the drainage ditch, START personnel observed metal piping, drum carcasses, and various metal scraps protruding from the area of exposed solid waste. The drums were deteriorating and observed protruding out of the edge of the exposed waste pile. One drum was releasing the black sludge/hardened tar material.

On-site/Off-site Receptors
Comments/Details

(✓) Drinking Water: **(✓) Private:** Equal distribution calculations of 1990 U.S. Census CENTRACTS data indicate that an estimated population of 15 people rely on private drinking water supply wells within 1 radial mile of the JJ Riley site. No private drinking water supply wells are suspected by START to be located within 0.25 radial miles of the JJ Riley site.

On-site/Off-site Receptors
Comments/Details (Concluded)

(✓) Municipal: There are no active public groundwater drinking water sources located within 1 radial mile of the JJ Riley site. Woburn municipal Wells G & H are located approximately 3,100 ft northeast of the site. These wells were closed in 1979 due to VOC contamination. The nearest source of public drinking water is a surface water intake located at Horn Pond, which is approximately 2.2 to 2.5 miles southwest of the property. Horn Pond is not located along the surface water pathway.

(✓) Groundwater: Based on topography and previous investigations of the area, groundwater is assumed to flow in an easterly direction toward the Aberjona River.

(✓) Unrestricted Access: The site is open to the public for business purposes, and there are no forms of restricted access.

(✓) Population in Proximity: An estimated 446 people live within 0.25 radial miles of the JJ Riley site, and an estimated 9,806 people live within 1 radial mile of the site.

(✓) Sensitive Ecosystem: There are no sensitive environments located on the JJ Riley site. Sensitive environments located within 0.25 radial miles of the site include approximately 23 acres of wetlands and a Clean Water Act (CWA)-protected water body. Sensitive environments located within 1 radial mile of the site include approximately 128 acres of wetlands. Sensitive environments located along the downstream surface water pathway include a CWA-protected water body, a fishery, and approximately 2.9 miles of wetland frontage. Approximately 0.5 miles of wetland frontage is located in the northern portion of the Murphy's Waste Oil property.

(✓) Other: Woburn High School is located approximately 3,350 ft southwest of the JJ Riley site. The nearest perennial surface water body is the Aberjona River, located approximately 2,500 ft east of the site.

Site Observations/Concerns

On-Site Reconnaissance: 30 April 2004

On 30 April 2004, as part of this Site Reassessment (SR), START personnel conducted an on-site reconnaissance of the JJ Riley site. START personnel were met by Mr. Joe LeMay of EPA, Mr. David Sullivan of TRC (a contractor to EPA), and Mr. Jim Merrill of the MBCR (associated with MBTA). START personnel walked along the northern portion of the Murphy's Waste Oil property (part of the Wells G & H NPL site) located east of the JJ Riley site. Wetlands on the Murphy's Waste Oil property abut the MBTA railroad tracks to the west. Mr. LeMay and Mr. Sullivan pointed out to START personnel the location of previous wetland sediment sample locations on the Murphy's Waste Oil property collected as part of EPA's ecological risk assessment as part of its Baseline Risk Assessment for the Southwest Properties (Murphy Waste Oil property, former Whitney Barrel property, and former Aberjona Auto Parts property). Mr. LeMay stated that analysis of the sediment samples documented elevated concentrations of chromium, lead, arsenic, and polychlorinated biphenyls (PCBs). Mr. LeMay also stated that the reason for the proposed sampling on the JJ Riley site was to assist EPA with evaluating how the JJ Riley site's historical tannery operations may be impacting wetlands on the Murphy's Waste Oil property.

Site Observations/Concerns (Continued)

After walking through the Murphy's Waste Oil property, all involved in the site reconnaissance walked through the northern portion of the Organix property, which is part of the JJ Riley site. For the purposes of this SR, the Organix property was the only property involved with the site reconnaissance. While on the northern portion of the Organix property, START personnel observed a culvert where a stormwater drainage ditch flowed underneath the MBTA railroad tracks and into the wetlands located on the Murphy's Waste Oil property. The drainage ditch begins on the western-central section of the Organix property and continues in a northeasterly manner along the entire length of the property until it reaches the culvert just west of the MBTA railroad property. The drainage ditch follows a relatively steep grade down a ridge, where the ditch and surrounding area flatten out into a low-lying area prior to the culvert located just west of the MBTA railroad tracks. START personnel observed flowing water in the initial approximately 100 ft of the drainage ditch, after which the flowing water terminated.

START personnel observed an area of exposed solid waste located north of the drainage ditch. Scattered throughout the area of exposed solid waste were glass bottles, leather scraps, and a black sludge/hardened tar-like material. Mr. Sullivan stated that he had observed a similar material during the investigation of the Murphy's Waste Oil site. Underneath the exposed solid waste area, adjacent to (north of) the drainage ditch, START personnel observed an approximately 12-inch layer of bluish-gray soil. This layer of bluish-gray soil was located at approximately 2 to 3 feet below the ground surface and for a distance of approximately 75 feet.

START personnel observed a stormwater detention pond located at the base of a slope in the central portion of the Organix property. On the southern section of the stormwater detention pond, a former building foundation was observed. START personnel assume that the foundation was once part of buildings used during tannery operations on the site. After completing a walk-through of the northern portion of the Organix property, Mr. LeMay and START personnel designated certain areas as proposed sample locations. In particular, the locations proposed for sampling included the exposed solid waste area, the area of the observed bluish-gray layer located on the edge of the exposed waste pile, the low-lying area west of the MBTA railroad tracks (four locations), and the stormwater detention pond (two locations). The locations were marked with either pin flags or stakes.

Site Observations/Concerns (Continued)

Sampling Trip : 22 June 2004

START personnel conducted source and sediment sampling activities at the JJ Riley site on 22 June 2004. Table 1 (p. 17) provides a summary of the three source samples (SO-01 through SO-03) and the 20 sediment samples (SD-01A through SD-01C; SD-02A through SD-02C; SD-03A through SD-03C; SD-04A -through SD-04C; SD-05A through SD-05B; SD-06A through SD-06C; and SD-07 through SD-08) collected from the JJ Riley site. Figure 4 illustrates GPS-recorded START sample locations on a map created from Massachusetts Geographic Information System datalayers, including wetlands, surface roads, railroads, and 3-meter contour intervals. This figure is included to depict the topography of the northern portion of the JJ Riley property. The 3-meter contour interval of the map reveals the relatively steep slopes in this area of the site. The drainage ditch, located at the base of the slopes, carries stormwater/overland flow down a ridge (in a northeasterly direction), where the ditch and surrounding area flatten out into a low-lying area prior to the culvert located just west of the MBTA railroad tracks. All sampling activities were conducted in accordance with the EPA-approved Task Work Plan, dated 6 June 2004, with the following deviations:

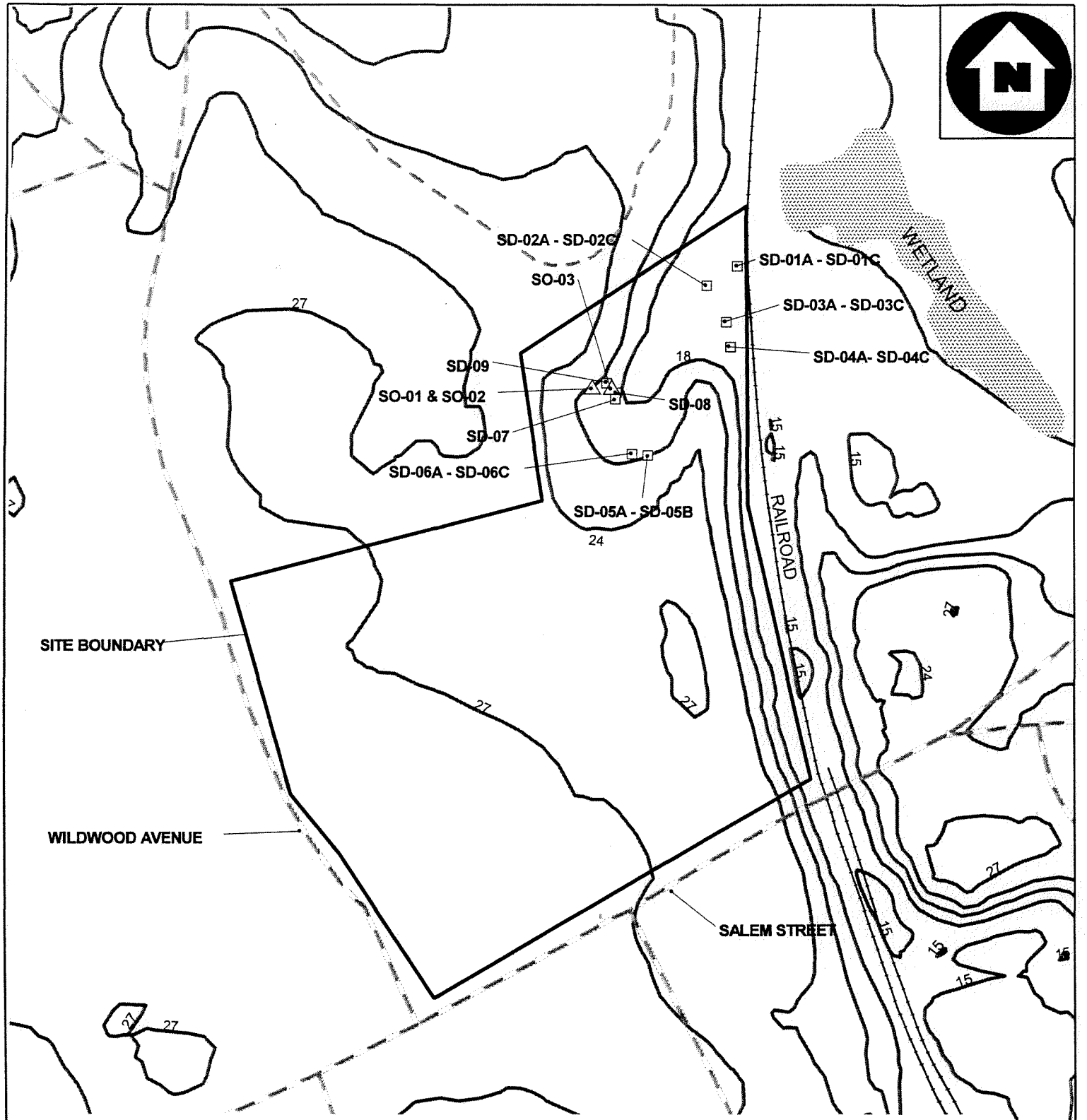
- Extra volume was collected for source sample SO-01 and sediment sample SD-01A as these samples served as the Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples for each matrix sampled.

- Semivolatile organic compound (SVOC), pesticide/PCB (pest/PCB), total metals, and cyanide fractions were collected for sediment sample SD-06C. The VOC fraction and one container for SVOCs and pest/PCBs were not collected due to the fact that there was not enough sediment sample material available.

- Sediment samples SD-05C, SD-05D, and SD-06D were not collected due to encountering refusal while hand auguring at their respective locations.

- One sample equipment rinsate blank was collected during the sampling event. Source samples SO-01 and SO-02 were collected using dedicated disposable scoops.

- The VOC fractions of sediment samples SD-03B, SD-04A, SD-04B, SD-08, and SD-09 effervesced while adding sample material to the pre-preserved vials. As a result, two 5-gram Encore® samplers were also collected for the VOC fraction of each sample. The pre-preserved vials and the 5-gram Encore® samplers were both shipped to the laboratory. The laboratory was instructed to analyze the pre-preserved vials only if they had not been compromised during transport. If damage had occurred with the vials, the laboratory was instructed to analyze the 5-gram Encore® samplers.



BASE MAP IS CREATED FROM MA GIS DATALAYERS INCLUDING WETLANDS, SURFACE ROADS, RAILROADS, AND 3-METER CONTOUR INTERVALS.

SAMPLE LOCATION MAP

JOHN J RILEY
SALEM STREET
WOBURN, MASSACHUSETTS

WESTON SOLUTIONS
Restoring Resource Efficiency

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD NUMBER:	CREATED BY:	CREATED ON:
04-05-0149	T. Benton	09/22/2004

FILE LOCATION: E:\ARC_APRs\START\JJ RILEY.APR

FIGURE 4

Site Observations/Concerns (Concluded)

- The VOC fraction for each source sample (leather scrap and black sludge material) was collected into a pre-preserved 40-milliliter (ml) vial. Initially, the VOC fraction was going to be collected into pre-preserved 8-ounce (oz) jars, but it was decided that the source (leather scrap and black sludge material) samples would be cut up to fit into the pre-preserved vials. Two 40-ml sodium bisulfate vials and one 60-ml methanol vial were used to collect the VOC fraction of the samples. In addition, preservative blank PB-02 was not collected due to the fact that the VOC-fraction sample containers changed for all source samples.

Complete analytical results of START sediment samples, including quantitation and detection limits, are presented in Attachment A. In addition, complete analytical results of START source samples, including quantitation and detection limits, are presented in Attachment B. Sample results qualified with a "J" on analytical tables are considered approximate because of limitations identified during Delivery of Analytical Services (DAS) data validation. In addition, organic sample results reported at concentrations below sample quantitation limits and confirmed by mass spectrometry are also qualified by a "J" and considered approximate.

A photograph log depicting site conditions observed during the on-site reconnaissance, and START sample locations is presented in Attachment C.

Report prepared by: Mr. Timothy Benton
Affiliation: START 2000
Date: 21 September 2004

Table 1

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Source					
SO-01 (MS/MSD)	D 15538	6/22/04 1431	Grab	NA	Grab source sample collected from a black sludge material located in the area of exposed solid waste in the northwestern portion of the Organix property. Material is black, solid, crystal-like, partially burned material. PID & FID = 0 units above background. 42° 29′ 25.4″ north latitude 71° 08′ 03.5″ west longitude
SO-02	D 15539	6/22/04 1441	Grab	NA	Grab source sample collected from a black tar material located on the edge of the area of exposed solid waste in the northwestern portion of the Organix property. Material was seeping out of a 1- to 2-gallon container. Material is black, tar-like material. PID = 1,108 units above background. FID = 451.6 units above background. 42° 29′ 25.4″ north latitude 71° 08′ 03.5″ west longitude
SO-03	D 15540	6/22/04 1523	Composite	NA	Composite source sample collected from leather scraps located in the area of the exposed solid waste pile in the northwestern portion of the Organix property. Material is brown, weathered leather scraps. PID & FID = 0 units above background. 42° 29′ 25.4″ north latitude 71° 08′ 03.1″ west longitude
MATRIX: Sediment					
SD-01A (MS/MSD)	D 15541	6/22/04 0805	Grab	0 to 1 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected from the easternmost portion of the drainage ditch. Material was dark brown SILT, little fine sand, trace clay, glass and plastic. Jar headspace readings: PID = 0.2 units above background. FID = 1.7 units above background. 42° 29′ 27.1″ north latitude 71° 08′ 00.8″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Continued)					
SD-01B	D 15542	6/22/04 0825	Grab	1 to 2 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected from the easternmost portion of the drainage ditch. Material was dark brown SILT, trace fine sand, clay, glass and plastic. Jar headspace readings: PID = 0.8 units above background. FID = 0.0 units above background. 42° 29′ 27.1″ north latitude 71° 08′ 00.8″ west longitude
SD-01C	D 15543	6/22/04 0835	Grab	2 to 3 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected from the easternmost portion of the drainage ditch. Material was dark brown, organic rich SILT, trace clay and organics. At 2.7 ft bgs the material was yellow-brown CLAY, little fine sand, and silt. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 27.1″ north latitude 71° 08′ 00.8″ west longitude
SD-02A	D 15544	6/22/04 0825	Grab	0 to 1 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected approximately 50 ft southwest of samples SD-01A through SD-01C. Material was dark brown fine SAND, trace silt and organics. Jar headspace readings: PID = 0.0 units above background. FID = 1.5 units above background. 42° 29′ 26.8″ north latitude 71° 08′ 01.3″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Continued)					
SD-02B	D 15555	6/22/04 0835	Grab	1 to 1.5 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected approximately 50 ft southwest of samples SD-01A through SD-01C. Material was dark brown fine SAND, trace silt and organics. Jar headspace readings: PID = 0.0 units above background. FID = 2.2 units above background. 42° 29′ 26.8″ north latitude 71° 08′ 01.3″ west longitude
SD-02C	D 15556	6/22/04 0850	Grab	2 to 3 ft	Grab sediment sample collected from the northeastern portion of the Organix property. Sample collected approximately 50 ft southwest of samples SD-01A through SD-01C. Material was dark brown medium SAND, trace silt and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.8″ north latitude 71° 08′ 01.3″ west longitude
SD-03A	D 15547	6/22/04 0950	Grab	0 to 1 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 20 ft east of the former production well remains. Material was dark brown fine SAND, some fine sand, trace silt and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.3″ north latitude 71° 08′ 01.0″ west longitude
SD-03B	D 15548	6/22/04 1000	Grab	1 to 2 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 20 ft east of the former production well remains. Material was dark brown medium SAND, some fine sand, trace silt and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.3″ north latitude 71° 08′ 01.0″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Continued)					
SD-03C	D 15549	6/22/04 1100	Grab	2 to 3 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 20 ft east of the former production well remains. Material was dark brown SILT, trace fine sand and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.3″ north latitude 71° 08′ 01.0″ west longitude
SD-04A	D 15550	6/22/04 0935	Grab	0 to 1 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 40 ft south of samples SD-03A through SD-03C. Material was medium brown SILT, some fine sand, trace coarse gravel and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.0″ north latitude 71° 08′ 00.9″ west longitude
SD-04B	D 15551	6/22/04 0955	Grab	1 to 2 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 40 ft south of samples SD-03A through SD-03C. Material was medium brown SILT, some coarse gravel, little medium gravel, trace clay, fine sand, and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.0″ north latitude 71° 08′ 00.9″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Continued)					
SD-04C	D 15552	6/22/04 1020	Grab	2 to 3 ft	Grab sediment sample collected from the eastern portion of the Organix property. Sample collected approximately 40 ft south of samples SD-03A through SD-03C. Material was dark brown SILT, some coarse gravel, little fine gravel, trace clay, fine sand, and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 26.0″ north latitude 71° 08′ 00.9″ west longitude
SD-05A	D 15553	6/22/04 1210	Grab	0 to 1 ft	Grab sediment sample collected from the central portion of the Organix property. Sample collected from the southern portion of the detention pond in the area of the former building foundation. Material was dark brown coarse SAND, trace silt and medium gravel. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 24.5″ north latitude 71° 08′ 02.4″ west longitude
SD-05B	D 15554	6/22/04 1240	Grab	1 to 2 ft	Grab sediment sample collected from the central portion of the Organix property. Sample collected from the southern portion of the detention pond in the area of the former building foundation. Material was light brown SILT, some medium gravel, trace organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 24.5″ north latitude 71° 08′ 02.4″ west longitude
SD-06A	D 15557	6/22/04 1200	Grab	0 to 1 ft	Grab sediment sample collected from the central portion of the Organix property. Sample collected from the southwest side of the detention pond in the area of the former building foundation. Material was medium brown fine SAND, some silt and medium gravel, little clay. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 24.5″ north latitude 71° 08′ 02.7″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Continued)					
SD-06B	D 15558	6/22/04 1225	Grab	1 to 2 ft	Grab sediment sample collected from the central portion of the Organix property. Sample collected from the southwest side of the detention pond in the area of the former building foundation. Material was medium brown fine SAND, some coarse sand, little silt, medium gravel, and organics. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 24.5″ north latitude 71° 08′ 02.7″ west longitude
SD-06C	D 15559	6/22/04 1302	Grab	2 to 2.6 ft	Grab sediment sample collected from the central portion of the Organix property. Sample collected from the southwest side of the detention pond in the area of the former building structure. Material was medium brown medium SAND, some fine sand. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 24.5″ north latitude 71° 08′ 02.7″ west longitude
SD-07	D 15570	6/22/04 1355	Grab	0 to 0.5 ft	Sample collected from the area of exposed solid waste located on the northern portion of the Organix property. Material was dark brown SILT, some fine sand, trace coarse gravel. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 25.5″ north latitude 71° 08′ 03.2″ west longitude
SD-08	D 15571	6/22/04 1405	Grab	0 to 0.5 ft	Sample collected from the edge of the area of exposed solid waste located on the northern portion of the Organix property. Material was a bluish-gray, crumbling substance. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 25.4″ north latitude 71° 08′ 03.0″ west longitude

Table 1 (Continued)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Sediment (Concluded)					
SD-09	D 15572	6/22/04 1410	Grab	0 to 0.5 ft	Sample collected from the edge of the area of exposed solid waste located on the northern portion of the Organix property. Material was a bluish-gray, crumbling substance. Jar headspace readings: PID = 0.0 units above background. FID = 0.0 units above background. 42° 29′ 25.3″ north latitude 71° 08′ 03.0″ west longitude
MATRIX: Aqueous QA/QC					
RB-01	D 15561	6/22/04 1545	Grab	NA	Source and sediment sampling equipment rinsate blank sample, collected for quality control.
TB-01	D 15565	6/22/04 0615	Grab	NA	Trip blank sample, collected for quality control.
TB-02	D 15566	6/22/04 0615	Grab	NA	Trip blank sample, collected for quality control.
PB-01	D 15567	6/22/04 0620	Grab	NA	Methanol preservative blank sample, collected for quality control.
PB-03	D 15569	6/22/04 0620	Grab	NA	Sodium bisulfate preservative blank, collected for quality control.
MATRIX: Performance Evaluation Samples					
PE-0026097	D 15575	6/22/04 0630	Grab	NA	Aqueous Performance Evaluation sample for low-to-medium level VOCs.
PE-SS0446	D 15576	6/22/04 0630	Grab	NA	Solid Performance Evaluation sample for low-to-medium level SVOCs.
PE-0014178	D 15577	6/22/04 0630	Grab	NA	Aqueous Performance Evaluation sample for low-to-medium level pesticides/PCBs.
PE-TT05481	D 15578	6/22/04 0630	Grab	NA	Solid Performance Evaluation sample for low-to-medium level Aroclor-1254.

Table 1 (Concluded)

Sample Summary: John J Riley
Samples Collected by START on 22 June 2004

Sample Location No.	Traffic Report No.	Date/Time (hrs)	Remarks	Sample Depth (Feet bgs)	Sample Source
MATRIX: Performance Evaluation Samples (Concluded)					
PE-IS4279	D 15579	6/22/04 0630	Grab	NA	Solid Performance Evaluation sample for low-to-medium level metals.
PE-CNS1033	D 15580	6/22/04 0630	Grab	NA	Solid Performance Evaluation sample for low-to-medium level cyanide.

MS/MSD	= Matrix Spike/Matrix Spike Duplicate	NA	= Not applicable
FID	= Flame Ionization Detector	PID	= Photoionization Detector
VOCs	= Volatile Organic Compounds	SVOCs	= Semivolatile Organic Compounds
PCBs	= Polychlorinated Biphenyls	hrs	= Hours (denotes military time)
No.	= Number	QA/QC	= Quality Assurance/Quality Control
bgs	= Below Ground Surface	ft	= Feet
°	= Degrees	"	= Seconds
'	= Minutes		

ATTACHMENT A

JOHN J RILEY

SEDIMENT SAMPLE ANALYTICAL RESULTS
START

Samples collected 22 June 2004

DATA SUMMARY KEY
ORGANIC DATA VALIDATION

J	=	The associated numerical value is an estimated quantity.
R	=	The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
U	=	The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
UJ	=	The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
EB	=	The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
TB	=	The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
BB	=	The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST
ORGANIC DATA VALIDATION

AQ	aqueous
AQ FB	aqueous field blank
B/N	base/neutral compound
°C	degrees Celsius
CC	Continuing Calibration
CLP	Contract Laboratory Program
COC	Chain-of-Custody record
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
%D	percent difference
DAS	Delivery of Analytical Services
DQO	Data Quality Objective
DV	Data Validation
DW	drinking water
EB	Equipment Blank
EPA	Environmental Protection Agency
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometry
GW	groundwater
IC	Initial Calibration
IS	Internal Standard
kg	kilogram
L	liter
LCS	Laboratory Control Sample
LFB	Laboratory Fortified Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	non-detected result
OSC	On-Scene Coordinator
PCB	polychlorinated biphenyl compound
P/PCB	pesticide/polychlorinated biphenyl compound
PE	Performance Evaluation
Pos	positive result
QC	Quality Control
%R	percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SOW	Statement of Work
SQL	Sample Quantitation Limit
S/S	soil/sediment
S/S (m)	soil/sediment medium level
START	Superfund Technical Assessment and Response Team
SVOC	semivolatile organic compound
SW	surface water
SW-846	EPA Test Methods for Evaluating Solid Waste
TB	Trip Blank
TCL	Target Compound List
TDD	Technical Direction Document
TIC	Tentatively Identified Compound
TR	Traffic Report
U	Undetected
µg	microgram
VOC	volatile organic compound
WESTON	Weston Solutions, Inc.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 1
VOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15541	D15542	D15543	D15544	D15555
SAMPLE LOCATION:		SD-01A	SD-01B	SD-01C	SD-02A	SD-02B
LABORATORY NUMBER:		576609	576610	576611	576612	576621
COMPOUND	CRQL					
Dichlorodifluoromethane	10	20 U	15 UJ	20 U	11 UJ	13 U
Chloromethane	10	20 U	15 UJ	20 U	11 UJ	13 UJ
Vinyl Chloride	10	20 U	15 UJ	20 U	11 UJ	13 U
Bromomethane	10	5 J	3 J	20 U	3 J	13 U
Chloroethane	10	20 U	15 UJ	20 U	11 UJ	13 UJ
Trichlorofluoromethane	10	20 U	15 UJ	20 U	11 UJ	13 U
1,1-Dichloroethene	10	20 U	15 UJ	20 U	11 UJ	13 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	20 U	15 UJ	20 U	11 UJ	13 U
Acetone	10	400 J	290 J	510 J	300 J	150 J
Carbon Disulfide	10	4 J	3 J	5 J	2 J	1 J
Methyl Acetate	10	18 J	12 J	20 U	23 J	13 U
Methylene Chloride	10	20 U	15 UJ	20 U	11 UJ	13 U
trans-1,2-Dichloroethene	10	20 U	15 UJ	20 U	11 UJ	13 U
Methyl tert-Butyl Ether	10	20 U	15 UJ	20 U	11 UJ	13 U
1,1-Dichloroethane	10	20 U	15 UJ	20 U	11 UJ	13 U
cis-1,2-Dichloroethene	10	20 U	15 UJ	20 U	11 UJ	13 U
2-Butanone	10	76 J	57 J	140 J	64 J	53 J
Chloroform	10	20 U	15 UJ	20 U	11 UJ	13 U
1,1,1-Trichloroethane	10	20 U	15 UJ	20 U	11 UJ	13 U
Cyclohexane	10	20 U	15 UJ	20 U	11 UJ	13 U
Carbon Tetrachloride	10	20 U	15 UJ	20 U	11 UJ	13 U
Benzene	10	3 J	2 J	20 U	11 UJ	13 U
1,2-Dichloroethane	10	20 U	15 UJ	20 U	11 UJ	13 U
Trichloroethene	10	20 U	15 UJ	20 U	11 UJ	13 U
Methylcyclohexane	10	20 U	15 UJ	20 U	11 UJ	13 U
1,2-Dichloropropane	10	20 U	15 UJ	20 U	11 UJ	13 U
Bromodichloromethane	10	20 U	15 UJ	20 U	11 UJ	13 U
cis-1,3-Dichloropropene	10	20 U	15 UJ	20 U	11 UJ	13 U
4-Methyl-2-Pentanone	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Toluene	10	3 J	3 J	20 UJ	3 J	13 UJ
trans-1,3-Dichloropropene	10	20 U	15 UJ	20 U	11 UJ	13 U
1,1,2-Trichloroethane	10	20 U	15 UJ	20 U	11 UJ	13 U
Tetrachloroethene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
2-Hexanone	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Dibromochloromethane	10	20 U	15 UJ	20 U	11 UJ	13 U
1,2-Dibromoethane	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Chlorobenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Ethylbenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Xylene (Total)	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Styrene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
Bromoform	10	20 U	15 UJ	20 U	11 UJ	13 U
Isopropylbenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,1,2,2-Tetrachloroethane	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,3-Dichlorobenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,4-Dichlorobenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,2-Dichlorobenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,2-Dibromo-3-chloropropane	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
1,2,4-Trichlorobenzene	10	20 U	15 UJ	20 UJ	11 UJ	13 UJ
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE ANALYZED:		06/24/04	06/24/04	06/24/04	06/24/04	06/24/04
% MOISTURE:		43	39	48	39	31

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 1
VOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15556	D15547	D15548	D15549	D15550
SAMPLE LOCATION:		SD-02C	SD-03A	SD-03B	SD-03C	SD-04A
LABORATORY NUMBER:		576622	576613	576614	576615R1	576616
COMPOUND	CRQL					
Dichlorodifluoromethane	10	9 U	12 UJ	10 U	9 UJ	24 U
Chloromethane	10	9 UJ	12 UJ	10 U	9 UJ	24 U
Vinyl Chloride	10	9 U	12 UJ	10 U	9 UJ	24 U
Bromomethane	10	9 U	12 UJ	10 U	9 UJ	24 U
Chloroethane	10	9 UJ	12 UJ	10 U	9 UJ	24 U
Trichlorofluoromethane	10	9 U	12 UJ	10 U	9 UJ	24 U
1,1-Dichloroethene	10	9 U	12 UJ	10 U	9 UJ	24 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	9 U	12 UJ	10 U	9 UJ	24 U
Acetone	10	23 UJ	710 J	60 J	64 J	380 J
Carbon Disulfide	10	9 U	5 J	2 J	9 UJ	7 J
Methyl Acetate	10	9 J	12 UJ	10 U	10 J	28 J
Methylene Chloride	10	9 U	12 UJ	2 J	9 UJ	24 U
trans-1,2-Dichloroethene	10	9 U	12 UJ	10 U	9 UJ	24 U
Methyl tert-Butyl Ether	10	9 U	12 UJ	10 U	9 UJ	24 U
1,1-Dichloroethane	10	9 U	12 UJ	10 U	9 UJ	24 U
cis-1,2-Dichloroethene	10	9 U	12 UJ	10 U	9 UJ	8 J
2-Butanone	10	7 J	120 J	15 J	12 J	90 J
Chloroform	10	9 U	12 UJ	10 U	9 UJ	24 U
1,1,1-Trichloroethane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Cyclohexane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Carbon Tetrachloride	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Benzene	10	9 U	3 J	3 J	9 UJ	3 J
1,2-Dichloroethane	10	9 U	12 UJ	10 U	9 UJ	24 U
Trichloroethene	10	9 U	12 UJ	13 J	8 J	24 UJ
Methylcyclohexane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
1,2-Dichloropropane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Bromodichloromethane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
cis-1,3-Dichloropropene	10	9 U	12 UJ	10 U	9 UJ	24 UJ
4-Methyl-2-Pentanone	10	9 U	R	10 UJ	9 UJ	24 UJ
Toluene	10	9 J	6 J	4 J	9 UJ	47 J
trans-1,3-Dichloropropene	10	9 U	12 UJ	10 U	9 UJ	24 UJ
1,1,2-Trichloroethane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Tetrachloroethene	10	9 U	4 J	6 J	4 J	24 UJ
2-Hexanone	10	9 U	R	10 UJ	9 UJ	24 UJ
Dibromochloromethane	10	9 U	12 UJ	10 U	9 UJ	24 UJ
1,2-Dibromoethane	10	9 U	R	10 UJ	9 UJ	24 UJ
Chlorobenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
Ethylbenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
Xylene (Total)	10	9 U	R	10 UJ	9 UJ	24 UJ
Styrene	10	9 U	R	10 UJ	9 UJ	24 UJ
Bromoform	10	9 U	12 UJ	10 U	9 UJ	24 UJ
Isopropylbenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
1,1,2,2-Tetrachloroethane	10	9 U	R	10 UJ	9 UJ	24 UJ
1,3-Dichlorobenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
1,4-Dichlorobenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
1,2-Dichlorobenzene	10	9 U	R	10 UJ	9 UJ	24 UJ
1,2-Dibromo-3-chloropropane	10	9 U	R	10 UJ	9 UJ	24 UJ
1,2,4-Trichlorobenzene	10	9 UJ	R	10 UJ	9 UJ	24 UJ
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE ANALYZED:		06/24/04	06/24/04	06/24/04	06/24/04	06/24/04
% MOISTURE:		36	40	37	35	49

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 1
VOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15551	D15552	D15553	D15554	D15557
SAMPLE LOCATION:		SD-04B	SD-04C	SD-05A	SD-05B	SD-06A
LABORATORY NUMBER:		576617	576618	576619	576620	576623
COMPOUND	CRQL					
Dichlorodifluoromethane	10	12 U	8 U	7 U	5 U	11 U
Chloromethane	10	12 U	8 UJ	7 UJ	5 UJ	11 UJ
Vinyl Chloride	10	12 U	8 U	7 U	5 U	11 U
Bromomethane	10	2 J	8 U	7 U	5 U	11 U
Chloroethane	10	12 U	8 UJ	7 UJ	5 UJ	11 UJ
Trichlorofluoromethane	10	12 U	8 U	7 U	5 U	11 U
1,1-Dichloroethene	10	12 U	8 U	7 U	5 U	11 U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	12 U	8 U	7 U	5 U	11 U
Acetone	10	120 J	33 UJ	14 UJ	12 UJ	28 UJ
Carbon Disulfide	10	2 J	8 U	0.7 J	0.6 J	2 J
Methyl Acetate	10	19 J	3 J	5 J	8	19
Methylene Chloride	10	12 U	8 U	7 U	1 J	11 U
trans-1,2-Dichloroethene	10	12 U	8 U	7 U	5 U	11 U
Methyl tert-Butyl Ether	10	12 U	8 U	7 U	5 U	11 U
1,1-Dichloroethane	10	12 U	8 U	7 U	5 U	11 U
cis-1,2-Dichloroethene	10	12 U	8 U	7 U	5 U	11 U
2-Butanone	10	35 J	9 J	5 J	4 J	9 J
Chloroform	10	12 U	8 U	7 U	5 U	11 U
1,1,1-Trichloroethane	10	12 U	8 U	7 U	5 U	11 U
Cyclohexane	10	12 U	8 U	7 U	5 U	11 U
Carbon Tetrachloride	10	12 U	8 U	7 U	5 U	11 U
Benzene	10	2 J	8 U	7 U	5 U	11 U
1,2-Dichloroethane	10	12 U	8 U	7 U	5 U	11 U
Trichloroethene	10	12 U	8 U	7 U	5 U	11 U
Methylcyclohexane	10	12 U	8 U	7 U	5 U	11 U
1,2-Dichloropropane	10	12 U	8 U	7 U	5 U	11 U
Bromodichloromethane	10	12 U	8 U	7 U	5 U	11 U
cis-1,3-Dichloropropene	10	12 U	8 U	7 U	5 U	11 U
4-Methyl-2-Pentanone	10	12 UJ	8 U	7 U	5 U	11 UJ
Toluene	10	50 J	9	7 U	5 U	2 J
trans-1,3-Dichloropropene	10	12 U	8 U	7 U	5 U	11 U
1,1,2-Trichloroethane	10	12 U	8 U	7 U	5 U	11 U
Tetrachloroethene	10	12 UJ	8 U	7 U	5 U	11 UJ
2-Hexanone	10	12 UJ	8 U	7 U	5 U	11 UJ
Dibromochloromethane	10	12 U	8 U	7 U	5 U	11 U
1,2-Dibromoethane	10	12 UJ	8 U	7 U	5 U	11 UJ
Chlorobenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
Ethylbenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
Xylene (Total)	10	12 UJ	8 U	7 U	5 U	11 UJ
Styrene	10	12 UJ	8 U	7 U	5 U	11 UJ
Bromoform	10	12 U	8 U	7 U	5 U	11 U
Isopropylbenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
1,1,2,2-Tetrachloroethane	10	12 UJ	8 U	7 U	5 U	11 UJ
1,3-Dichlorobenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
1,4-Dichlorobenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
1,2-Dichlorobenzene	10	12 UJ	8 U	7 U	5 U	11 UJ
1,2-Dibromo-3-chloropropane	10	12 UJ	8 U	7 U	5 U	11 UJ
1,2,4-Trichlorobenzene	10	12 UJ	8 UJ	7 UJ	5 UJ	11 UJ
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE ANALYZED:		06/24/04	06/24/04	06/24/04	06/24/04	06/24/04
% MOISTURE:		20	17	32	25	26

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 1
VOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15558	D15570	D15571	D15772
SAMPLE LOCATION:		SD-06B	SD-07	SD-08	SD-09
LABORATORY NUMBER:		576624	576631R1	576632	576633
COMPOUND	CRQL				
Dichlorodifluoromethane	10	7 U	18 UJ	23 UJ	25 UJ
Chloromethane	10	7 UJ	18 UJ	23 UJ	25 UJ
Vinyl Chloride	10	7 U	18 UJ	23 UJ	25 UJ
Bromomethane	10	7 U	18 UJ	23 UJ	8 J
Chloroethane	10	7 UJ	18 UJ	23 UJ	25 UJ
Trichlorofluoromethane	10	7 U	18 UJ	23 UJ	25 UJ
1,1-Dichloroethene	10	7 U	18 UJ	23 UJ	25 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	10	7 U	18 UJ	23 UJ	25 UJ
Acetone	10	7 UJ	1100 J	320 J	25 UJ
Carbon Disulfide	10	2 J	3 J	7 J	4 J
Methyl Acetate	10	8	67 J	23 UJ	25 UJ
Methylene Chloride	10	0.9 J	18 UJ	23 UJ	25 UJ
trans-1,2-Dichloroethene	10	7 U	18 UJ	23 UJ	25 UJ
Methyl tert-Butyl Ether	10	7 U	18 UJ	23 UJ	25 UJ
1,1-Dichloroethane	10	7 U	18 UJ	23 UJ	25 UJ
cis-1,2-Dichloroethene	10	7 U	18 UJ	23 UJ	25 UJ
2-Butanone	10	3 J	140 J	76 J	37 J
Chloroform	10	7 U	18 UJ	23 UJ	25 UJ
1,1,1-Trichloroethane	10	7 U	18 UJ	23 UJ	25 UJ
Cyclohexane	10	7 U	18 UJ	23 UJ	25 UJ
Carbon Tetrachloride	10	7 U	18 UJ	23 UJ	25 UJ
Benzene	10	7 U	14 J	23 UJ	25 UJ
1,2-Dichloroethane	10	7 U	18 UJ	23 UJ	25 UJ
Trichloroethene	10	7 U	18 UJ	23 UJ	25 UJ
Methylcyclohexane	10	7 U	18 UJ	23 UJ	25 UJ
1,2-Dichloropropane	10	7 U	18 UJ	23 UJ	25 UJ
Bromodichloromethane	10	7 U	18 UJ	23 UJ	25 UJ
cis-1,3-Dichloropropene	10	7 U	18 UJ	23 UJ	25 UJ
4-Methyl-2-Pentanone	10	7 U	R	23 UJ	25 UJ
Toluene	10	7 U	5 J	23 UJ	25 UJ
trans-1,3-Dichloropropene	10	7 U	18 UJ	23 UJ	25 UJ
1,1,2-Trichloroethane	10	7 U	18 UJ	23 UJ	25 UJ
Tetrachloroethene	10	7 U	R	23 UJ	25 UJ
2-Hexanone	10	7 U	R	23 UJ	25 UJ
Dibromochloromethane	10	7 U	18 UJ	23 UJ	25 UJ
1,2-Dibromoethane	10	7 U	R	23 UJ	25 UJ
Chlorobenzene	10	7 U	R	23 UJ	25 UJ
Ethylbenzene	10	7 U	R	23 UJ	25 UJ
Xylene (Total)	10	7 U	R	23 UJ	25 UJ
Styrene	10	7 U	R	23 UJ	25 UJ
Bromoform	10	7 U	18 UJ	23 UJ	25 UJ
Isopropylbenzene	10	7 U	R	23 UJ	25 UJ
1,1,2,2-Tetrachloroethane	10	7 U	R	23 UJ	25 UJ
1,3-Dichlorobenzene	10	7 U	R	23 UJ	25 UJ
1,4-Dichlorobenzene	10	7 U	R	23 UJ	25 UJ
1,2-Dichlorobenzene	10	7 U	R	23 UJ	25 UJ
1,2-Dibromo-3-chloropropane	10	7 U	R	23 UJ	25 UJ
1,2,4-Trichlorobenzene	10	7 UJ	R	23 UJ	25 UJ
DILUTION FACTOR:		1.0	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04
DATE ANALYZED:		06/24/04	06/25/04	06/25/04	06/24/04
% MOISTURE:		27	26	34	26

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 4
SEMIVOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15541	D15542	D15543	D15544	D15555	D15556
SAMPLE LOCATION:		SD-01A	SD-01B	SD-01C	SD-02A	SD-02B	SD-02C
LABORATORY NUMBER:		576609	576610	576611	576612	576621	576622R1
COMPOUND	CRQL						
Benzaldehyde	330	830 UJ	830 UJ	630 UJ	1800 UJ	480 UJ	860 UJ
Phenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
bis(2-Chloroethyl)Ether	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Chlorophenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Methylphenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,2'-oxybis(1-Chloropropane)	330	830 U	830 U	630 U	1800 U	480 U	860 U
Acetophenone	330	830 U	830 U	630 U	1800 U	480 U	860 U
4-Methylphenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
N-Nitroso-di-n-propylamine	330	830 U	830 U	630 U	1800 U	480 U	860 U
Hexachloroethane	330	830 U	830 U	630 U	1800 U	480 U	860 U
Nitrobenzene	330	830 U	830 U	630 U	1800 U	480 U	860 U
Isophorone	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Nitrophenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,4-Dimethylphenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
bis(2-Chloroethoxy)methane	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,4-Dichlorophenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
Naphthalene	330	66 J	63 J	62 J	1800 U	480 U	860 U
4-Chloroaniline	330	830 U	830 U	630 U	1800 U	480 U	860 U
Hexachlorobutadiene	330	830 U	830 U	630 U	1800 U	480 U	860 U
Caprolactam	330	830 U	830 U	630 U	1800 U	480 U	860 U
4-Chloro-3-methylphenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Methylnaphthalene	330	830 U	48 J	52 J	1800 U	480 U	860 U
Hexachlorocyclopentadiene	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,4,6-Trichlorophenol	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,4,5-Trichlorophenol	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
1,1'-Biphenyl	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Chloronaphthalene	330	830 U	830 U	630 U	1800 U	480 U	860 U
2-Nitroaniline	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
Dimethylphthalate	330	830 U	830 U	630 U	1800 U	480 U	860 U
2,6-Dinitrotoluene	330	830 U	830 U	630 U	1800 U	480 U	860 U
Acenaphthylene	330	830 U	41 J	630 U	1800 U	480 U	860 U
3-Nitroaniline	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
Acenaphthene	330	72 J	120 J	110 J	160 J	39 J	43 J
2,4-Dinitrophenol	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
4-Nitrophenol	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
Dibenzofuran	330	62 J	72 J	78 J	110 J	26 J	860 U
2,4-Dinitrotoluene	330	830 U	830 U	630 U	1800 U	480 U	860 U
Diethylphthalate	330	830 U	830 U	630 U	1800 U	480 U	860 U
Fluorene	330	70 J	120 J	110 J	160 J	42 J	45 J
4-Chlorophenyl-phenylether	330	830 U	830 U	630 U	1800 U	480 U	860 U
4-Nitroaniline	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
4,6-Dinitro-2-methylphenol	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
N-Nitrosodiphenylamine (1)	330	830 U	830 U	630 U	1800 U	480 U	860 U
4-Bromophenyl-phenylether	330	830 U	830 U	630 U	1800 U	480 U	860 U
Hexachlorobenzene	330	830 U	830 U	630 U	1800 U	480 U	860 U
Atrazine	330	830 U	830 U	630 U	1800 U	480 U	860 U
Pentachlorophenol	830	2100 U	2100 U	1600 U	4500 U	1200 U	2200 U
Phenanthrene	330	1900	1800	1800	4100	920	1000
Anthracene	330	240 J	350 J	370 J	520 J	140 J	170 J
Carbazole	330	290 J	220 J	150 J	570 J	120 J	150 J
Di-n-butylphthalate	330	830 U	56 J	39 J	1800 U	27 J	860 U
Fluoranthene	330	3800	3400	2100	7700	2000	2400
Pyrene	330	4700 J	3000	3100 J	8200	2200	2600
Butylbenzylphthalate	330	830 U	88 J	630 UJ	1800 U	46 J	860 U
3,3'-Dichlorobenzidine	330	830 UJ	830 UJ	630 UJ	1800 UJ	480 UJ	860 UJ
Benzo(a)anthracene	330	1600	1600	1300 J	3100	870	1000
Chrysene	330	3000	2200	1700 J	6300	1500	1900
bis(2-Ethylhexyl)phthalate	330	470 J	450 J	320 J	890 J	320 J	390 J
Di-n-octylphthalate	330	830 UJ	830 U	630 UJ	1800 U	480 UJ	860 UJ
Benzo(b)fluoranthene	330	4300 J	2900	2200 J	8600	2100 J	2400 J
Benzo(k)fluoranthene	330	2700 J	1900	1300 J	4800	1800 J	2200 J
Benzo(a)pyrene	330	2400 J	1800	1400 J	4900	1200 J	1500 J
Indeno(1,2,3-cd)pyrene	330	1500 J	990	870 J	3800	740 J	910 J
Dibenzo(a,h)anthracene	330	560 J	440 J	280 J	1500 J	330 J	410 J
Benzo(g,h,i)perylene	330	1600 J	1100	940 J	4500	820 J	1100 J
DILUTION FACTOR:		1.4	1.5	1.0	3.3	1.0	1.7
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		07/02/04	07/01/04	07/02/04	07/02/04	07/02/04	07/02/04
% MOISTURE:		43	39	48	39	31	36

* - Result reported from diluted analysis.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 4
SEMIVOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15547	D15548	D15549	D15550	D15551	D15552
SAMPLE LOCATION:		SD-03A	SD-03B	SD-03C	SD-04A	SD-04B	SD-04C
LABORATORY NUMBER:		576613	576614	576615	576616	576617	576618
COMPOUND	CRQL						
Benzaldehyde	330	550 UJ	520 UJ	4400 J EE	650 UJ	410 UJ	400 UJ
Phenol	330	550 U	520 U	190 J	650 U	410 U	400 U
bis(2-Chloroethyl)Ether	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Chlorophenol	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Methylphenol	330	550 U	520 U	850 U	650 U	410 U	400 U
2,2'-oxybis(1-Chloropropane)	330	550 U	520 U	850 U	650 U	410 U	400 U
Acetophenone	330	550 U	520 U	850 U	650 U	410 U	400 U
4-Methylphenol	330	550 U	520 U	850 U	650 U	69 J	400 U
N-Nitroso-di-n-propylamine	330	550 U	520 U	850 U	650 U	410 U	400 U
Hexachloroethane	330	550 U	520 U	850 U	650 U	410 U	400 U
Nitrobenzene	330	550 U	520 U	850 U	650 U	410 U	400 U
Isophorone	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Nitrophenol	330	550 U	520 U	850 U	650 U	410 U	400 U
2,4-Dimethylphenol	330	550 U	520 U	850 U	650 U	410 U	400 U
bis(2-Chloroethoxy)methane	330	550 U	520 U	850 U	650 U	410 U	400 U
2,4-Dichlorophenol	330	550 U	520 U	850 U	650 U	410 U	400 U
Naphthalene	330	57 J	39 J	850 U	650 U	27 J	400 U
4-Chloroaniline	330	550 U	520 U	850 U	650 U	410 U	400 U
Hexachlorobutadiene	330	550 U	520 U	850 U	650 U	410 U	400 U
Caprolactam	330	550 U	520 U	850 U	650 U	410 U	400 U
4-Chloro-3-methylphenol	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Methylnaphthalene	330	39 J	44 J	850 U	650 U	34 J	19 J
Hexachlorocyclopentadiene	330	550 U	520 U	850 U	650 U	410 U	400 U
2,4,6-Trichlorophenol	330	550 U	520 U	850 U	650 U	410 U	400 U
2,4,5-Trichlorophenol	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
1,1'-Biphenyl	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Chloronaphthalene	330	550 U	520 U	850 U	650 U	410 U	400 U
2-Nitroaniline	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
Dimethylphthalate	330	550 U	520 U	850 U	650 U	410 U	400 U
2,6-Dinitrotoluene	330	550 U	520 U	850 U	650 U	410 U	400 U
Acenaphthylene	330	49 J	27 J	850 U	650 U	410 U	400 U
3-Nitroaniline	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
Acenaphthene	330	100 J	27 J	850 U	41 J	410 U	400 U
2,4-Dinitrophenol	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
4-Nitrophenol	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
Dibenzofuran	330	58 J	25 J	850 U	650 U	410 U	400 U
2,4-Dinitrotoluene	330	550 U	520 U	850 U	650 U	410 U	400 U
Diethylphthalate	330	550 U	520 U	850 U	650 U	410 U	400 U
Fluorene	330	84 J	28 J	850 U	36 J	410 U	400 U
4-Chlorophenyl-phenylether	330	550 U	520 U	850 U	650 U	410 U	400 U
4-Nitroaniline	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
4,6-Dinitro-2-methylphenol	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
N-Nitrosodiphenylamine (1)	330	550 U	520 U	850 U	650 U	410 U	400 U
4-Bromophenyl-phenylether	330	550 U	520 U	850 U	650 U	410 U	400 U
Hexachlorobenzene	330	550 U	520 U	850 U	650 U	410 U	400 U
Atrazine	330	550 U	520 U	850 U	650 U	410 U	400 U
Pentachlorophenol	830	1400 U	1300 U	2100 U	1600 U	1000 U	1000 U
Phenanthrene	330	2000	550	220 J	840	220 J	100 J
Anthracene	330	270 J	92 J	850 U	130 J	28 J	400 U
Carbazole	330	320 J	87 J	850 U	150 J	31 J	400 U
Di-n-butylphthalate	330	36 J	32 J	850 U	42 J	23 J	23 J
Fluoranthene	330	*4100	1000	510 J	2300	420	190 J
Pyrene	330	4400	990	550 J	2400	450	220 J
Butylbenzylphthalate	330	67 J	520 U	850 U	54 J	410 U	400 U
3,3'-Dichlorobenzidine	330	550 UJ	520 UJ	850 UJ	650 UJ	410 UJ	400 UJ
Benzo(a)anthracene	330	1900	510 J	210 J	1000	190 J	92 J
Chrysene	330	3100	780	320 J	1700	370 J	180 J
bis(2-Ethylhexyl)phthalate	330	1100	82 J	850 U	510 J	110 J	140 J
Di-n-octylphthalate	330	550 UJ	520 U	850 U	650 UJ	410 U	400 U
Benzo(b)fluoranthene	330	*4100 J	930	330 J	2800 J	580	170 J
Benzo(k)fluoranthene	330	2400 J	920	280 J	1500 J	310 J	200 J
Benzo(a)pyrene	330	2400 J	650	260 J	1300 J	270 J	110 J
Indeno(1,2,3-cd)pyrene	330	1500 J	320 J	220 J	810 J	170 J	71 J
Dibenzo(a,h)anthracene	330	690 J	140 J	74 J	310 J	41 J	30 J
Benzo(g,h,i)perylene	330	1700 J	350 J	240 J	950 J	210 J	81 J
DILUTION FACTOR:		1.0/1.4*	1.0	1.7	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		07/02/04	07/02/04	07/02/04	07/02/04	07/02/04	07/02/04
% MOISTURE:		40	37	35	49	20	18

* - Result reported from diluted analysis.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 4
SEMIVOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15553	D15554	D15557	D15558	D15559	D15570
SAMPLE LOCATION:		SD-05A	SD-05B	SD-06A	SD-06B	SD-06C	SD-07
LABORATORY NUMBER:		576619	576620	576623	576624	576625	576631
COMPOUND	CRQL						
Benzaldehyde	330	970 UJ	680 UJ	450 UJ	450 UJ	1900 UJ	530 UJ
Phenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
bis(2-Chloroethyl)Ether	330	970 U	680 U	450 U	450 U	1900 U	530 U
2-Chlorophenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
2-Methylphenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,2'-oxybis(1-Chloropropane)	330	970 U	680 U	450 U	450 U	1900 U	530 U
Acetophenone	330	970 U	680 U	450 U	450 U	1900 U	530 U
4-Methylphenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
N-Nitroso-di-n-propylamine	330	970 U	680 U	450 U	450 U	1900 U	530 U
Hexachloroethane	330	970 U	680 U	450 U	450 U	1900 U	530 U
Nitrobenzene	330	970 U	680 U	450 U	450 U	1900 U	530 U
Isophorone	330	970 U	680 U	450 U	450 U	1900 U	530 U
2-Nitrophenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,4-Dimethylphenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
bis(2-Chloroethoxy)methane	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,4-Dichlorophenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
Naphthalene	330	970 U	46 J	69 J	48 J	1900 U	84 J
4-Chloroaniline	330	970 U	680 U	450 U	450 U	1900 U	530 U
Hexachlorobutadiene	330	970 U	680 U	450 U	450 U	1900 U	530 U
Caprolactam	330	970 U	680 U	450 U	450 U	1900 U	530 U
4-Chloro-3-methylphenol	330	970 U	680 U	450 UJ	450 UJ	1900 UJ	530 UJ
2-Methylnaphthalene	330	970 U	680 U	450 U	450 U	1900 U	36 J
Hexachlorocyclopentadiene	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,4,6-Trichlorophenol	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,4,5-Trichlorophenol	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
1,1'-Biphenyl	330	970 U	680 U	450 U	450 U	1900 U	530 U
2-Chloronaphthalene	330	970 U	680 U	450 U	450 U	1900 U	530 U
2-Nitroaniline	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
Dimethylphthalate	330	970 U	680 U	450 U	450 U	1900 U	530 U
2,6-Dinitrotoluene	330	970 U	680 U	450 U	450 U	1900 U	530 U
Acenaphthylene	330	970 U	680 U	450 U	450 U	1900 U	530 U
3-Nitroaniline	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
Acenaphthene	330	140 J	120 J	31 J	110 J	190 J	72 J
2,4-Dinitrophenol	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
4-Nitrophenol	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
Dibenzofuran	330	82 J	78 J	21 J	63 J	110 J	46 J
2,4-Dinitrotoluene	330	970 U	680 U	450 U	450 U	1900 U	530 U
Diethylphthalate	330	970 U	680 U	450 U	450 U	1900 U	530 U
Fluorene	330	130 J	110 J	30 J	95 J	190 J	66 J
4-Chlorophenyl-phenylether	330	970 U	680 U	450 U	450 U	1900 U	530 U
4-Nitroaniline	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
4,6-Dinitro-2-methylphenol	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
N-Nitrosodiphenylamine (1)	330	970 U	680 U	450 U	450 U	1900 U	530 U
4-Bromophenyl-phenylether	330	970 U	680 U	450 U	450 U	1900 U	530 U
Hexachlorobenzene	330	970 U	680 U	450 U	450 U	1900 U	530 U
Atrazine	330	970 U	680 U	450 U	450 U	1900 U	530 U
Pentachlorophenol	830	2400 U	1700 U	1100 U	1100 U	4900 U	1300 U
Phenanthrene	330	2500	2400	540	1900	4400	1500
Anthracene	330	310 J	290 J	70 J	190 J	360 J	340 J
Carbazole	330	430 J	520 J	70 J	310 J	870 J	240 J
Di-n-butylphthalate	330	47 J	680 U	34 J	34 J	1900 U	41 J
Fluoranthene	330	4400	4500	760	2900	8200	1200
Pyrene	330	3900	4600 J	960 J	3500 J	8100	3500 J
Butylbenzylphthalate	330	970 U	680 UJ	450 UJ	450 UJ	1900 U	R
3,3'-Dichlorobenzidine	330	970 UJ	680 UJ	450 UJ	450 UJ	1900 UJ	R
Benzo(a)anthracene	330	1800	1500 J	400 J	1100 J	3000	1200 J
Chrysene	330	3900	3800 J	730 J	2900 J	7600	1500 J
bis(2-Ethylhexyl)phthalate	330	990	1100 J	360 J	800 J	1800 J	R
Di-n-octylphthalate	330	270 J	680 UJ	450 UJ	450 UJ	1900 U	R
Benzo(b)fluoranthene	330	5900 J	5100 J	730 J	2700 J	7800	1500 J
Benzo(k)fluoranthene	330	4800 J	2800 J	670 J	2600 J	7100	1100 J
Benzo(a)pyrene	330	3000 J	2300 J	520 J	1800 J	5000	1300 J
Indeno(1,2,3-cd)pyrene	330	1700 J	1600 J	420 J	1400 J	4400 J	1200 J
Dibenzo(a,h)anthracene	330	860 J	650 J	170 J	570 J	1900 J	470 J
Benzo(g,h,i)perylene	330	1800 J	1700 J	460 J	1600 J	4700 J	4000 J
DILUTION FACTOR:		2.0	1.5/2.0*	1.0	1.0	3.3	1.2
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		07/02/04	07/06/04	07/05/04	07/05/04	07/05/04	07/05/04
% MOISTURE:		32	25	26	27	43	26

* - Result reported from diluted analysis.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 4
SEMIVOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15571		D15572	
SAMPLE LOCATION:		SD-08		SD-09	
LABORATORY NUMBER:		576632		576633	
COMPOUND	CRQL				
Benzaldehyde	330	500	UJ	450	UJ
Phenol	330	500	U	450	U
bis(2-Chloroethyl)Ether	330	500	U	450	U
2-Chlorophenol	330	500	U	450	U
2-Methylphenol	330	500	U	450	U
2,2'-oxybis(1-Chloropropane)	330	500	U	450	U
Acetophenone	330	500	U	450	U
4-Methylphenol	330	150	J	91	J
N-Nitroso-di-n-propylamine	330	500	U	450	U
Hexachloroethane	330	500	U	450	U
Nitrobenzene	330	500	U	450	U
Isophorone	330	500	U	450	U
2-Nitrophenol	330	500	U	450	U
2,4-Dimethylphenol	330	500	U	450	U
bis(2-Chloroethoxy)methane	330	500	U	450	U
2,4-Dichlorophenol	330	500	U	450	U
Naphthalene	330	56	J	100	J
4-Chloroaniline	330	500	U	450	U
Hexachlorobutadiene	330	500	U	450	U
Caprolactam	330	500	U	450	U
4-Chloro-3-methylphenol	330	500	UJ	450	U
2-Methylnaphthalene	330	35	J	41	J
Hexachlorocyclopentadiene	330	500	U	450	U
2,4,6-Trichlorophenol	330	500	U	450	U
2,4,5-Trichlorophenol	830	1300	U	1100	U
1,1'-Biphenyl	330	500	U	21	J
2-Chloronaphthalene	330	500	U	450	U
2-Nitroaniline	830	1300	U	1100	U
Dimethylphthalate	330	500	U	450	U
2,6-Dinitrotoluene	330	500	U	450	U
Acenaphthylene	330	40	J	25	J
3-Nitroaniline	830	1300	U	1100	U
Acenaphthene	330	500	U	28	J
2,4-Dinitrophenol	830	1300	U	1100	U
4-Nitrophenol	830	1300	U	1100	U
Dibenzofuran	330	500	U	33	J
2,4-Dinitrotoluene	330	500	U	450	U
Diethylphthalate	330	500	U	450	U
Fluorene	330	500	U	31	J
4-Chlorophenyl-phenylether	330	500	U	450	U
4-Nitroaniline	830	1300	U	1100	U
4,6-Dinitro-2-methylphenol	830	1300	U	1100	U
N-Nitrosodiphenylamine (1)	330	500	U	450	U
4-Bromophenyl-phenylether	330	500	U	450	U
Hexachlorobenzene	330	500	U	450	U
Atrazine	330	500	U	450	U
Pentachlorophenol	830	1300	U	1100	U
Phenanthrene	330	390	J	560	
Anthracene	330	86	J	130	J
Carbazole	330	31	J	48	J
Di-n-butylphthalate	330	28	J	26	J
Fluoranthene	330	520		800	
Pyrene	330	680	J	1000	J
Butylbenzylphthalate	330	500	UJ	450	UJ
3,3'-Dichlorobenzidine	330	500	UJ	450	UJ
Benzo(a)anthracene	330	500	J	520	J
Chrysene	330	600	J	620	J
bis(2-Ethylhexyl)phthalate	330	500	UJ	450	UJ
Di-n-octylphthalate	330	500	UJ	450	UJ
Benzo(b)fluoranthene	330	640	J	620	J
Benzo(k)fluoranthene	330	570	J	570	J
Benzo(a)pyrene	330	720	J	570	J
Indeno(1,2,3-cd)pyrene	330	470	J	280	J
Dibenzo(a,h)anthracene	330	110	J	86	J
Benzo(g,h,i)perylene	330	590	J	350	J
DILUTION FACTOR:		1.0		1.0	
DATE SAMPLED:		06/22/04		06/22/04	
DATE EXTRACTED:		06/23/04		06/23/04	
DATE ANALYZED:		07/05/04		07/02/04	
% MOISTURE:		34		26	

* - Result reported from diluted analysis.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 7
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15541	D15542	D15543	D15544	D15555	D15556
SAMPLE LOCATION:		SD-01A	SD-01B	SD-01C	SD-02A	SD-02B	SD-02C
LABORATORY NUMBER:		576609	576610	576611	576612	576621	576622
COMPOUND	CRQL						
alpha-BHC	1.7	3.0 UJ	2.8 U	3.3 U	2.8 U	2.5 U	2.7 U
beta-BHC	1.7	3.0 UJ	R	3.3 U	2.8 U	*7.4 U	*8.0 U
delta-BHC	1.7	27 J	5.0	5.8	43	9.0	7.6
gamma-BHC (Lindane)	1.7	3.0 UJ	2.8 U	3.3 U	2.8 U	2.5 U	2.7 U
Heptachlor	1.7	3.0 UJ	2.8 U	3.3 U	2.8 U	2.5 U	2.7 U
Aldrin	1.7	3.0 UJ	2.8 U	3.3 U	2.8 U	2.5 U	2.7 U
Heptachlor Epoxide	1.7	4.7 J	4.9	5.6	3.7	*7.4 U	*8.0 U
Endosulfan I	1.7	3.0 UJ	2.8 U	3.3 U	2.8 U	2.5 U	2.7 U
Dieldrin	3.3	3.0 J	5.4 U	8.5	5.4 U	4.8 U	5.2 U
4,4'-DDE	3.3	12 J	11	22	7.1	66	63
Endrin	3.3	5.8 UJ	R	6.3 U	R	4.8 U	5.2 U
Endosulfan II	3.3	5.8 UJ	5.4 U	6.3 U	5.4 U	4.8 U	5.2 U
4,4'-DDD	3.3	6.1 J	12	25	4.2 J	56	54
Endosulfan Sulfate	3.3	R	5.4 U	6.3 U	R	4.8 U	5.2 U
4,4'-DDT	3.3	46 J	79	60	28	26	23
Methoxychlor	17	30 UJ	28 U	33 U	28 U	25 U	27 U
Endrin Ketone	3.3	18 J	6.9	5.3 J	8.7 J	4.8 U	5.2 U
Endrin Aldehyde	3.3	9.4 J	R	6.3 U	5.1 J	4.8 U	5.2 U
alpha-Chlordane	1.7	32 J	36	*52	20	*50	*48
gamma-Chlordane	1.7	24 J	32	47	16 J	*46	*43
Toxaphene	170	300 UJ	280 U	330 U	280 U	250 U	270 U
Aroclor-1016	33	58 UJ	54 U	63 U	54 U	48 U	52 U
Aroclor-1221	67	120 UJ	110 U	130 U	110 U	97 U	100 U
Aroclor-1232	33	58 UJ	54 U	63 U	54 U	48 U	52 U
Aroclor-1242	33	58 UJ	54 U	63 U	54 U	48 U	52 U
Aroclor-1248	33	58 UJ	54 U	63 U	54 U	48 U	52 U
Aroclor-1254	33	58 UJ	54 U	63 U	54 U	48 U	52 U
Aroclor-1260	33	58 UJ	54 U	63 U	54 U	48 U	52 U
DILUTION FACTOR:		1.0	1.0	1.0/2.0*	1.0	1.0/3.0*	1.0/3.0*
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		06/28/04	06/29/04	06/29/04	06/29/04	06/29/04	06/29/04
% MOISTURE:		43	39	48	39	31	36

* - RESULT REPORTED FROM DILUTED ANALYSIS.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 7
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15547	D15548	D15549	D15550	D15551	D15552
SAMPLE LOCATION:		SD-03A	SD-03B	SD-03C	SD-04A	SD-04B	SD-04C
LABORATORY NUMBER:		576613	576614	576615	576616	576617	576618
COMPOUND	CRQL						
alpha-BHC	1.7	2.8 U	2.7 U	2.6 U	3.3 U	2.1 U	2.1 U
beta-BHC	1.7	2.8 U	2.7 U	2.6 U	*6.7 U	R	2.1 U
delta-BHC	1.7	21	4.3	2.3 J	15	4.6	2.1 U
gamma-BHC (Lindane)	1.7	2.8 U	2.7 U	2.6 U	3.3 U	2.1 U	2.1 U
Heptachlor	1.7	2.8 U	2.7 U	2.6 U	3.3 U	2.1 U	2.1 U
Aldrin	1.7	2.8 U	2.7 U	2.6 U	3.3 U	2.1 U	2.1 U
Heptachlor Epoxide	1.7	4.6 J	1.6 J	2.6 U	5.3 J	1.9 J	2.1 U
Endosulfan I	1.7	1.5 J	2.7 U	2.6 U	2.1 J	1.2 J	2.1 U
Dieldrin	3.3	3.7 J	5.2 U	5.1 U	21 J	4.6 J	4.0 U
4,4'-DDE	3.3	8.2	4.0 J	5.1 U	4.0 J	2.1 J	4.0 U
Endrin	3.3	R	5.2 U	5.1 U	6.5 U	4.1 U	4.0 U
Endosulfan II	3.3	5.5 U	5.2 U	5.1 U	5.2 J	4.1 U	4.0 U
4,4'-DDD	3.3	9.3	7.0	5.1 U	16	7.2	4.0 U
Endosulfan Sulfate	3.3	R	5.2 U	5.1 U	5.6 J	4.1 U	4.0 U
4,4'-DDT	3.3	26 J	4.7 J	5.1 U	14	3.9 J	4.0 U
Methoxychlor	17	28 U	27 U	26 U	33 U	21 U	21 U
Endrin Ketone	3.3	7.5 J	3.7 J	5.1 U	3.9 J	4.1 U	4.0 U
Endrin Aldehyde	3.3	4.4 J	5.2 U	5.1 U	6.5 U	4.1 U	4.0 U
alpha-Chlordane	1.7	21	8.1	2.8	*72	18	3.8
gamma-Chlordane	1.7	20 J	7.6	2.5 J	*70	17	3.7
Toxaphene	170	280 U	270 U	260 U	330 U	210 U	210 U
Aroclor-1016	33	55 U	52 U	51 U	65 U	41 U	40 U
Aroclor-1221	67	110 U	110 U	100 U	130 U	84 U	82 U
Aroclor-1232	33	55 U	52 U	51 U	65 U	41 U	40 U
Aroclor-1242	33	55 U	52 U	51 U	65 U	41 U	40 U
Aroclor-1248	33	55 U	52 U	51 U	65 U	41 U	40 U
Aroclor-1254	33	55 U	52 U	51 U	65 U	41 U	40 U
Aroclor-1260	33	55 U	52 U	51 U	65 U	41 U	40 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0/2.0*	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		06/29/04	06/29/04	06/29/04	06/29/04	06/29/04	06/29/04
% MOISTURE:		40	37	35	49	20	18

* - RESULT REPORTED FROM DILUTED ANALYSIS.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 7
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15553	D15554	D15557	D15558	D15559	D15570
SAMPLE LOCATION:		SD-05A	SD-05B	SD-06A	SD-06B	SD-06C	SD-07
LABORATORY NUMBER:		576619	576620	576623	576624	576625	576631
COMPOUND	CRQL						
alpha-BHC	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	4.3 J
beta-BHC	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	2.3 U
delta-BHC	1.7	2.5 U	2.3 U	1.9 J	1.4 J	2.2 J	2.3 U
gamma-BHC (Lindane)	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	2.3 U
Heptachlor	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	11 J
Aldrin	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	R
Heptachlor Epoxide	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	2.3 U
Endosulfan I	1.7	2.5 U	2.3 U	2.3 U	2.3 U	3.0 U	2.3 U
Dieldrin	3.3	4.9 U	4.4 U	4.5 U	4.5 U	5.8 U	4.5 U
4,4'-DDE	3.3	4.9 U	4.4 U	4.8	4.5 U	3.5 J	3.7 J
Endrin	3.3	4.9 U	4.4 U	4.5 U	4.5 U	3.8 J	4.5 U
Endosulfan II	3.3	4.9 U	4.4 U	4.5 U	4.5 U	5.8 U	4.5 U
4,4'-DDD	3.3	4.9 U	4.4 U	6.6	3.4 J	4.6 J	4.5 U
Endosulfan Sulfate	3.3	R	R	4.5 U	R	R	4.5 U
4,4'-DDT	3.3	4.3 J	3.3 J	2.9 J	3.2 J	7.9 J	30 J
Methoxychlor	17	25 U	23 U	23 U	23 U	30 U	23 U
Endrin Ketone	3.3	6.3 J	5.7 J	4.5 U	4.7	12 J	R
Endrin Aldehyde	3.3	4.9 U	4.4 U	4.5 U	2.5 J	6.1 J	4.5 U
alpha-Chlordane	1.7	2.5 U	2.3 U	3.0 J	3.0 J	R	1.6 J
gamma-Chlordane	1.7	1.4 J	2.3 U	3.3	3.5	4.6 J	R
Toxaphene	170	250 U	230 U	230 U	230 U	300 U	230 U
Aroclor-1016	33	49 U	44 U	45 U	45 U	58 U	45 U
Aroclor-1221	67	99 U	89 U	91 U	92 U	120 U	91 U
Aroclor-1232	33	49 U	44 U	45 U	45 U	58 U	45 U
Aroclor-1242	33	49 U	44 U	45 U	45 U	58 U	45 U
Aroclor-1248	33	49 U	44 U	45 U	45 U	58 U	45 U
Aroclor-1254	33	49 U	44 U	45 U	45 U	58 U	45 U
Aroclor-1260	33	49 U	44 U	45 U	45 U	58 U	45 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04	06/22/04	06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04	06/23/04	06/23/04	06/23/04	06/23/04
DATE ANALYZED:		06/29/04	06/29/04	06/28/04	06/28/04	06/28/04	06/28/04
% MOISTURE:		32	25	26	27	43	26

* - RESULT REPORTED FROM DILUTED ANALYSIS.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 7
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:		D15571	D15572
SAMPLE LOCATION:		SD-08	SD-09
LABORATORY NUMBER:		576632	576633
COMPOUND	CRQL		
alpha-BHC	1.7	2.6 U	2.3 U
beta-BHC	1.7	2.6 U	2.3 U
delta-BHC	1.7	2.6 U	2.3 U
gamma-BHC (Lindane)	1.7	2.6 U	2.3 U
Heptachlor	1.7	2.6 U	2.3 U
Aldrin	1.7	2.6 U	2.3 U
Heptachlor Epoxide	1.7	2.6 U	2.3 U
Endosulfan I	1.7	2.6 U	2.3 U
Dieldrin	3.3	5.0 U	4.5 U
4,4'-DDE	3.3	5.0 U	4.5 U
Endrin	3.3	5.0 U	4.5 U
Endosulfan II	3.3	5.0 U	4.5 U
4,4'-DDD	3.3	5.0 U	4.5 U
Endosulfan Sulfate	3.3	5.6 J	4.5 U
4,4'-DDT	3.3	5.0 U	4.5 U
Methoxychlor	17	26 U	23 U
Endrin Ketone	3.3	3.2 J	4.5 U
Endrin Aldehyde	3.3	5.0 U	4.5 U
alpha-Chlordane	1.7	2.6 U	2.3 U
gamma-Chlordane	1.7	2.6 U	2.3 U
Toxaphene	170	260 U	230 U
Aroclor-1016	33	50 U	45 U
Aroclor-1221	67	100 U	91 U
Aroclor-1232	33	50 U	45 U
Aroclor-1242	33	50 U	45 U
Aroclor-1248	33	50 U	45 U
Aroclor-1254	33	50 U	45 U
Aroclor-1260	33	50 U	45 U
DILUTION FACTOR:		1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04
DATE EXTRACTED:		06/23/04	06/23/04
DATE ANALYZED:		06/28/04	06/28/04
% MOISTURE:		34	26

* - RESULT REPORTED FROM DILUTED ANALYSIS.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

DATA SUMMARY KEY
INORGANIC DATA VALIDATION

J	=	The associated numerical value is an estimated quantity.
R	=	The result is rejected due to gross deficiencies in quality control criteria. The result is unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.
U	=	The compound was analyzed for but not detected. The associated numerical value is the SDL or the adjusted SDL.
UJ	=	The compound was analyzed for but not detected. The associated numerical value is the estimated SDL.

ACRONYM LIST
INORGANIC DATA VALIDATION

AQ	aqueous
°C	degrees Celsius
CCV	Continuing Calibration Verification
CLP	Contract Laboratory Program
COC	Chain-of-Custody record
Conc.	Concentration
CRDL	Contract Required Detection Limit
CRI	CRQL Standard for ICP
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
%D	percent difference
DAS	Delivery of Analytical Services
DC	Document Control
DQO	Data Quality Objective
DV	Data Validation
DW	drinking water
GW	groundwater
Cr+6	Hexavalent Chromium
IC	Ion Chromatography
ICP-MS	Inductively Coupled Plasma - Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
kg	kilogram
L	liter
LCS	Laboratory Control Sample
MDL	Method Detection Limit
mg	milligram
MS	Matrix Spike
MSA	Method of Standard Additions
NA	not applicable
ND	non-detected result
ORP	Oxidation Reduction Potential
PE	Performance Evaluation
Pos	positive result
QC	Quality Control
%R	percent recovery
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SDL	Sample Detection Limit
SOW	Statement of Work
S/S	soil/sediment
START	Superfund Technical Assessment and Response Team
SW	surface water
SW-846	EPA Test Methods for the Evaluation of Solid Waste
TAL	Target Analyte List
TCL	Target Compound List
µg	microgram
WESTON	Weston Solutions, Inc.

SITE: JOHN J RILEY
CASE: 0692F SDG: D15538
LABORATORY: LAUCKS TESTING LABORATORIES

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:		D15541	D15542	D15543	D15544	D15547	D15548	D15549
SAMPLE LOCATION:		SD-01A	SD-01B	SD-01C	SD-02A	SD-03A	SD-03B	SD-03C
LABORATORY NUMBER:		0406321-04	0406321-05	0406321-06	0406321-07	0406321-08	0406321-09	0406321-10
PERCENT SOLIDS:		58.1	61.6	53.5	63.2	56.8	65.7	48.8
INORGANIC ANALYTES	METHOD	METHOD DETECTION LIMITS (mg/kg)							CONTRACT QUANTITATION LIMITS (mg/kg)
ALUMINUM	P	25.9	19300	17200	17000	15500	14600	11800	19600	20
ANTIMONY	P	0.44	R	R	R	R	R	R	R	6
ARSENIC	P	0.80	1.4 UJ	1.3 UJ	1.5 UJ	1.1 UJ	1.4 UJ	1.2 UJ	2.7 UJ	1
BARIUM	P	0.11	176	279	460	181	497	191	112	20
BERYLLIUM	P	0.14	0.85 UJ	0.57 UJ	0.50 UJ	0.71 UJ	0.52 UJ	0.31 UJ	0.80 UJ	0.5
CADMIUM	P	0.14	1.8 J	1.5 J	1.7 J	1.1 J	1.4 J	0.56 U	0.83 U	0.5
CALCIUM	P	3.9	6230	4940	5710	5410	19300	54400	17700	500
CHROMIUM	P	0.79	3850 J	9060 J	19300 J	2708 J	5240 J	8390 J	1600 J	1
COBALT	P	0.13	21.2	12.8 J	10.9 J	13.3	11.8 J	6.5 J	9.6	5
COPPER	P	0.16	108 J	83.4 J	92.2 J	84.0 J	92.6 J	53.1 J	62.9 J	2.5
IRON	P	1.9	25100	23400	23900	21900	22100	15200	19700	10
LEAD	P	0.58	317	395	468	220	235	134	146	1
MAGNESIUM	P	1.1	5300	4570	4290	4390	4400	3360	3710	500
MANGANESE	P	0.13	908	515	415	585	811	262	295	1.5
MERCURY	CV	0.005	4.1	4.4	5.3	3.8	1.3	1.2	4.3	0.1
NICKEL	P	0.14	45.2	35.9	32.7	31.9	33.0	11.9	16.5	4
POTASSIUM	P	1.9	1870 J	1430 J	1080 J	1420 J	1220 J	1090 J	933 J	500
SELENIUM	P	0.57	3.4 J	2.7 UJ	3.0 UJ	2.5 UJ	2.3 UJ	1.5 UJ	2.9 UJ	3.5
SILVER	P	0.13	1.4 U	1.3 U	1.5 U	0.33 UJ	1.4 U	1.2 U	1.7 U	1
SODIUM	P	34	688 UJ	655 UJ	748 UJ	659 UJ	688 UJ	585 UJ	106 UJ	500
THALLIUM	P	0.85	R	R	R	R	R	R	R	2.5
VANADIUM	P	0.07	94.5 J	104 J	112 J	64.4 J	107 J	34.3 J	42.0 J	5
ZINC	P	1.1	576	444	608	447	486	61.3	111	6
CYANIDE	AS	0.08	4.9	5.5	7.7	3.8 J	5.9	1.1 J	1.8 J	2.5

ANALYTICAL METHOD
P - ICP
CV - COLD VAPOR
AS - SEMI AUTOMATED SPECTROPHOTOMETRIC

NOTE:
J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U = VALUE IS NON-DETECTED.
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R = VALUE IS REJECTED.
NA = NOT ANALYZED.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0692F SDG: D15538
LABORATORY: LAUCKS TESTING LABORATORIES

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:		D15550	D15551	D15552	D15553	D15554	D15555	D15556	
SAMPLE LOCATION:		SD-04A	SD-04B	SD-04C	SD-05A	SD-05B	SD-02B	SD-02C	
LABORATORY NUMBER:		0406321-11	0406321-12	0406321-13	0406321-14	0406321-15	0406321-16	0406321-17	
PERCENT SOLIDS:		49.6	78.5	79.9	66.5	76.1	67.3	65.2	
INORGANIC ANALYTES	METHOD	METHOD DETECTION LIMITS (mg/kg)							CONTRACT QUANTITATION LIMITS (mg/kg)
ALUMINUM	P	25.9	11300	11100	12400	14000	9610	16000	9900	20
ANTIMONY	P	0.44	R	R	R	R	R	R	R	6
ARSENIC	P	0.80	1.7 UJ	0.98 UJ	2.3 J	4.7 J	2.1 UJ	1.1 UJ	1.3 UJ	1
BARIUM	P	0.11	1560	686	82.9	406	263	210	497	20
BERYLLIUM	P	0.14	0.26 UJ	0.33 UJ	0.43 UJ	0.37 UJ	0.39 UJ	0.53 UJ	0.32 UJ	0.5
CADMIUM	P	0.14	1.7 J	0.49 U	0.50 U	0.61 U	0.53 U	0.84 J	0.45 U	0.5
CALCIUM	P	3.9	54600	13400	5910	3290	2750	5310	4480	500
CHROMIUM	P	0.79	16100 J	2670 J	799 J	703 J	386 J	3990 J	11900 J	1
COBALT	P	0.13	5.7 J	8.1	10.8	9.6	6.6	12.5	5.0 J	5
COPPER	P	0.16	124 J	64.0 J	53.0 J	48.5 J	30.8 J	72.2 J	40.9 J	2.5
IRON	P	1.9	13800	15400	18100	18600	13500	20800	11400	10
LEAD	P	0.58	508	93.4	42.2	52.5	32.7	204	91.6	1
MAGNESIUM	P	1.1	4250	4080	4520	5590	3850	5420	2640	500
MANGANESE	P	0.13	486	233	233	179	140	474	209	1.5
MERCURY	CV	0.005	2.4	0.59	0.70	0.19	0.12	6.6	1.2	0.1
NICKEL	P	0.14	22.8	15.6	17.7	22.4	15.4	30.4	13.7	4
POTASSIUM	P	1.9	1020 J	1250 J	1140 J	1900 J	1160 J	1810 J	548 J	500
SELENIUM	P	0.57	1.5 UJ	1.6 UJ	1.5 UJ	2.3 UJ	1.6 UJ	2.2 UJ	1.4 UJ	3.5
SILVER	P	0.13	1.7 U	0.98 U	1.0 U	1.2 U	1.1 U	0.25 UJ	1.3 U	1
SODIUM	P	34	826 UJ	490 UJ	177 UJ	611 UJ	526 UJ	571 UJ	623 U	500
THALLIUM	P	0.85	R	R	R	R	R	R	R	2.5
VANADIUM	P	0.07	83.1 J	41.0 J	39.1 J	51.7 J	35.6 J	68.7 J	36.7 J	5
ZINC	P	1.1	589	306	71.1	271	173	335	221	6
CYANIDE	AS	0.08	1.9 J	0.84 J	2.9 U	2.3 J	0.87 J	3.5 UJ	0.16 J	2.5

ANALYTICAL METHOD
P - ICP
CV - COLD VAPOR
AS - SEMI AUTOMATED SPECTROPHOTOMETRIC

NOTE:
J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U = VALUE IS NON-DETECTED.
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R = VALUE IS REJECTED.
NA = NOT ANALYZED.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0692F SDG: D15538
LABORATORY: LAUCKS TESTING LABORATORIES

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:		D15557	D15558	D15559	D15570	D15571	D15572
SAMPLE LOCATION:		SD-06A	SD-06B	SD-06C	SD-07	SD-08	SD-09
LABORATORY NUMBER:		0406321-18	0406321-19	0406321-20	0406321-22	0406321-23	0406321-24
PERCENT SOLIDS:		80.7	80.4	63.0	72.7	66.4	74.0
INORGANIC ANALYTES	METHOD	METHOD DETECTION LIMITS (mg/kg)					CONTRACT QUANTITATION LIMITS (mg/kg)
ALUMINUM	P	25.9	9480	7980	10300	5080	5450	6810	20
ANTIMONY	P	0.44	R	R	R	R	R	R	6
ARSENIC	P	0.80	0.94 UJ	0.77 UJ	1.3 UJ	127 J	1.2 UJ	1.1 UJ	1
BARIUM	P	0.11	1030	491	664	1450	118	263	20
BERYLLIUM	P	0.14	0.30 UJ	0.35 UJ	0.39 UJ	0.80 UJ	0.60 UJ	0.27 UJ	0.5
CADMIUM	P	0.14	0.66 J	0.48 U	0.47 U	3.0 J	0.32 UJ	0.36 U	0.5
CALCIUM	P	3.9	1720	1880	1940	3480	29600	32500	500
CHROMIUM	P	0.79	1140 J	675 J	927 J	1490 J	47100 J	19200 J	1
COBALT	P	0.13	6.9	6.7	8.9	16.7 J	R	R	5
COPPER	P	0.16	34.8 J	29.1 J	49.3 J	257 J	44.6 J	60.0 J	2.5
IRON	P	1.9	14000	13600	17100	170000	8780	29400	10
LEAD	P	0.58	76.2	52.2	99.5	3110	254	289	1
MAGNESIUM	P	1.1	3890	3730	4590	1910	1910	2540	500
MANGANESE	P	0.13	127	120	145	908	115	277	1.5
MERCURY	CV	0.005	0.29	0.24	0.40	3.7	3.9	5.1	0.1
NICKEL	P	0.14	17.0	16.7	22.5	42.2	6.0	9.9	4
POTASSIUM	P	1.9	1040 J	841 J	1130 J	318 J	732 J	503 J	500
SELENIUM	P	0.57	1.4 UJ	1.5 UJ	1.9 UJ	19.0 J	4.2 UJ	3.1 J	3.5
SILVER	P	0.13	0.94 U	0.96 U	1.2 U	1.1	0.17 UJ	1.1 U	1
SODIUM	P	34	469 UJ	482 UJ	606 UJ	537 UJ	602 UJ	563 UJ	500
THALLIUM	P	0.85	R	R	R	R	R	R	2.5
VANADIUM	P	0.07	41.3 J	38.3 J	51.2 J	49.8 J	R	19.3 J	5
ZINC	P	1.1	478	259	360	1540	7.2 U	46.8	6
CYANIDE	AS	0.08	0.62 J	0.23 J	2.6 J	6.5	5.5	4.8	2.5

ANALYTICAL METHOD
P - ICP
CV - COLD VAPOR
AS - SEMI AUTOMATED SPECTROPHOTOMETRIC

NOTE:
J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U = VALUE IS NON-DETECTED.
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R = VALUE IS REJECTED.
NA = NOT ANALYZED.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

ATTACHMENT B

JOHN J RILEY

SOURCE SAMPLE ANALYTICAL RESULTS
START

Samples collected 22 June 2004

DATA SUMMARY KEY
ORGANIC DATA VALIDATION

J	=	The associated numerical value is an estimated quantity.
R	=	The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
U	=	The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
UJ	=	The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
EB	=	The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
TB	=	The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
BB	=	The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST
ORGANIC DATA VALIDATION

AQ	aqueous
AQ FB	aqueous field blank
B/N	base/neutral compound
°C	degrees Celsius
CC	Continuing Calibration
CLP	Contract Laboratory Program
COC	Chain-of-Custody record
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
%D	percent difference
DAS	Delivery of Analytical Services
DQO	Data Quality Objective
DV	Data Validation
DW	drinking water
EB	Equipment Blank
EPA	Environmental Protection Agency
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometry
GW	groundwater
IC	Initial Calibration
IS	Internal Standard
kg	kilogram
L	liter
LCS	Laboratory Control Sample
LFB	Laboratory Fortified Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	non-detected result
OSC	On-Scene Coordinator
PCB	polychlorinated biphenyl compound
P/PCB	pesticide/polychlorinated biphenyl compound
PE	Performance Evaluation
Pos	positive result
QC	Quality Control
%R	percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SOW	Statement of Work
SQL	Sample Quantitation Limit
S/S	soil/sediment
S/S (m)	soil/sediment medium level
START	Superfund Technical Assessment and Response Team
SVOC	semivolatile organic compound
SW	surface water
SW-846	EPA Test Methods for Evaluating Solid Waste
TB	Trip Blank
TCL	Target Compound List
TDD	Technical Direction Document
TIC	Tentatively Identified Compound
TR	Traffic Report
U	Undetected
µg	microgram
VOC	volatile organic compound
WESTON	Weston Solutions, Inc.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 2
VOLATILE SOIL ANALYSES - MEDIUM LEVEL
µg/kg

SAMPLE NUMBER:		D15538	D15539	D15540
SAMPLE LOCATION:		SO-01	SO-02	SO-03
LABORATORY NUMBER:		576606	576607	576608
COMPOUND	CRQL			
Dichlorodifluoromethane	1200	760 U	71000 U	7200 U
Chloromethane	1200	760 U	71000 U	7200 U
Vinyl Chloride	1200	760 U	71000 U	7200 U
Bromomethane	1200	760 U	71000 U	7200 U
Chloroethane	1200	760 U	71000 U	7200 U
Trichlorofluoromethane	1200	760 U	71000 U	7200 U
1,1-Dichloroethene	1200	760 U	71000 U	7200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	1200	760 U	71000 U	7200 U
Acetone	1200	760 U	71000 U	7200 U
Carbon Disulfide	1200	760 U	71000 U	7200 U
Methyl Acetate	1200	160 J	71000 U	7200 U
Methylene Chloride	1200	760 U	71000 U	7200 U
trans-1,2-Dichloroethene	1200	760 U	71000 U	7200 U
Methyl tert-Butyl Ether	1200	760 U	71000 U	7200 U
1,1-Dichloroethane	1200	760 U	71000 U	7200 U
cis-1,2-Dichloroethene	1200	760 U	71000 U	7200 U
2-Butanone	1200	760 U	71000 U	7200 U
Chloroform	1200	760 U	71000 U	7200 U
1,1,1-Trichloroethane	1200	760 U	71000 U	7200 U
Cyclohexane	1200	760 U	71000 U	7200 U
Carbon Tetrachloride	1200	760 U	71000 U	7200 U
Benzene	1200	760 U	71000 U	7200 U
1,2-Dichloroethane	1200	760 U	71000 U	7200 U
Trichloroethene	1200	760 U	71000 U	7200 U
Methylcyclohexane	1200	760 U	290000	7200 U
1,2-Dichloropropane	1200	760 U	71000 U	7200 U
Bromodichloromethane	1200	760 U	71000 U	7200 U
cis-1,3-Dichloropropene	1200	760 U	71000 U	7200 U
4-Methyl-2-Pentanone	1200	760 U	71000 U	7200 U
Toluene	1200	760 U	71000 U	7200 U
trans-1,3-Dichloropropene	1200	760 U	71000 U	7200 U
1,1,2-Trichloroethane	1200	760 U	71000 U	7200 U
Tetrachloroethene	1200	760 U	71000 U	7200 U
2-Hexanone	1200	760 U	71000 U	7200 U
Dibromochloromethane	1200	760 U	71000 U	7200 U
1,2-Dibromoethane	1200	760 U	71000 U	7200 U
Chlorobenzene	1200	760 U	71000 U	7200 U
Ethylbenzene	1200	760 U	71000 U	7200 U
Xylene (Total)	1200	760 U	16000 J	7200 U
Styrene	1200	760 U	71000 U	7200 U
Bromoform	1200	760 U	71000 U	7200 U
Isopropylbenzene	1200	760 U	71000 U	7200 U
1,1,2,2-Tetrachloroethane	1200	760 U	71000 U	7200 U
1,3-Dichlorobenzene	1200	760 U	71000 U	7200 U
1,4-Dichlorobenzene	1200	760 U	71000 U	7200 U
1,2-Dichlorobenzene	1200	760 U	71000 U	7200 U
1,2-Dibromo-3-chloropropane	1200	760 U	71000 U	7200 U
1,2,4-Trichlorobenzene	1200	760 U	71000 U	7200 U
DILUTION FACTOR:		1.0	58.7	1.0
DATE SAMPLED:		06/22/04	06/22/04	06/22/04
DATE ANALYZED:		06/24/04	06/24/04	06/24/04
% MOISTURE:		3	25	51

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 5
SEMIVOLATILE SOIL ANALYSES - MEDIUM LEVEL
µg/kg

SAMPLE NUMBER:		D15538	D15539
SAMPLE LOCATION:		SO-01	SO-02
LABORATORY NUMBER:		576606	576607
COMPOUND	CRQL		
Benzaldehyde	10000	100000 UJ	130000 UJ
Phenol	10000	100000 U	130000 U
bis(2-Chloroethyl)Ether	10000	100000 U	130000 U
2-Chlorophenol	10000	100000 U	130000 U
2-Methylphenol	10000	100000 U	130000 U
2,2'-oxybis(1-Chloropropane)	10000	100000 U	130000 U
Acetophenone	10000	100000 U	130000 U
4-Methylphenol	10000	100000 U	130000 U
N-Nitroso-di-n-propylamine	10000	100000 UJ	130000 U
Hexachloroethane	10000	100000 U	130000 U
Nitrobenzene	10000	100000 U	130000 U
Isophorone	10000	100000 U	130000 U
2-Nitrophenol	10000	100000 U	130000 U
2,4-Dimethylphenol	10000	100000 U	130000 U
bis(2-Chloroethoxy)methane	10000	100000 U	130000 U
2,4-Dichlorophenol	10000	100000 U	130000 U
Naphthalene	10000	27000 J	130000 U
4-Chloroaniline	10000	100000 U	130000 U
Hexachlorobutadiene	10000	100000 U	130000 U
Caprolactam	10000	100000 U	130000 U
4-Chloro-3-methylphenol	10000	100000 UJ	130000 UJ
2-Methylnaphthalene	10000	14000 J	50000 J
Hexachlorocyclopentadiene	10000	100000 U	130000 U
2,4,6-Trichlorophenol	10000	100000 U	130000 U
2,4,5-Trichlorophenol	25000	260000 U	330000 U
1,1'-Biphenyl	10000	5800 J	130000 U
2-Chloronaphthalene	10000	100000 U	130000 U
2-Nitroaniline	25000	260000 U	330000 U
Dimethylphthalate	10000	100000 U	130000 U
2,6-Dinitrotoluene	10000	100000 U	130000 U
Acenaphthylene	10000	9700 J	130000 U
3-Nitroaniline	25000	260000 U	330000 U
Acenaphthene	10000	42000 J	130000 U
2,4-Dinitrophenol	25000	260000 U	330000 U
4-Nitrophenol	25000	260000 U	330000 U
Dibenzofuran	10000	40000 J	130000 U
2,4-Dinitrotoluene	10000	100000 U	130000 U
Diethylphthalate	10000	100000 U	130000 U
Fluorene	10000	55000 J	130000 U
4-Chlorophenyl-phenylether	10000	100000 U	130000 U
4-Nitroaniline	25000	260000 U	330000 U
4,6-Dinitro-2-methylphenol	25000	260000 U	330000 U
N-Nitrosodiphenylamine (1)	10000	100000 U	130000 U
4-Bromophenyl-phenylether	10000	100000 U	130000 U
Hexachlorobenzene	10000	100000 U	130000 U
Atrazine	10000	100000 U	130000 U
Pentachlorophenol	25000	260000 U	330000 U
Phenanthrene	10000	490000	11000 J
Anthracene	10000	140000	130000 U
Carbazole	10000	33000 J	130000 U
Di-n-butylphthalate	10000	100000 U	130000 U
Fluoranthene	10000	430000	130000 U
Pyrene	10000	440000	130000 U
Butylbenzylphthalate	10000	100000 U	130000 U
3,3'-Dichlorobenzidine	10000	100000 UJ	130000 UJ
Benzo(a)anthracene	10000	230000	130000 U
Chrysene	10000	220000	130000 U
bis(2-Ethylhexyl)phthalate	10000	100000 U	130000 U
Di-n-octylphthalate	10000	100000 U	130000 U
Benzo(b)fluoranthene	10000	150000	130000 U
Benzo(k)fluoranthene	10000	180000	130000 U
Benzo(a)pyrene	10000	180000	130000 U
Indeno(1,2,3-cd)pyrene	10000	82000 J	130000 UJ
Dibenzo(a,h)anthracene	10000	38000 J	130000 U
Benzo(g,h,i)perylene	10000	84000 J	130000 UJ
DILUTION FACTOR:		10.0	10.0
DATE SAMPLED:		06/22/04	06/22/04
DATE EXTRACTED:		06/25/04	06/25/04
DATE ANALYZED:		07/05/04	07/05/04
% MOISTURE:		3	25

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

SITE; JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT
LABORATORIES- VERMONT

TABLE 3
SEMIVOLATILE SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:	D15540	
SAMPLE LOCATION:	SO-03	
LABORATORY NUMBER:	576608	
COMPOUND	CRQL	
Benzaldehyde	330	670 UJ
Phenol	330	100 J
bis(2-Chloroethyl)Ether	330	670 U
2-Chlorophenol	330	670 U
2-Methylphenol	330	670 U
2,2'-oxybis(1-Chloropropane)	330	670 U
Acetophenone	330	670 U
4-Methylphenol	330	670 U
N-Nitroso-di-n-propylamine	330	670 U
Hexachloroethane	330	670 U
Nitrobenzene	330	670 U
Isophorone	330	670 U
2-Nitrophenol	330	670 U
2,4-Dimethylphenol	330	670 U
bis(2-Chloroethoxy)methane	330	670 U
2,4-Dichlorophenol	330	670 U
Naphthalene	330	670 U
4-Chloroaniline	330	670 U
Hexachlorobutadiene	330	670 U
Caprolactam	330	670 U
4-Chloro-3-methylphenol	330	670 U
2-Methylnaphthalene	330	670 U
Hexachlorocyclopentadiene	330	670 U
2,4,6-Trichlorophenol	330	670 U
2,4,5-Trichlorophenol	830	1700 U
1,1'-Biphenyl	330	670 U
2-Chloronaphthalene	330	670 U
2-Nitroaniline	830	1700 U
Dimethylphthalate	330	670 U
2,6-Dinitrotoluene	330	670 U
Acenaphthylene	330	670 U
3-Nitroaniline	830	1700 U
Acenaphthene	330	670 U
2,4-Dinitrophenol	830	1700 U
4-Nitrophenol	830	1700 U
Dibenzofuran	330	670 U
2,4-Dinitrotoluene	330	670 U
Diethylphthalate	330	670 U
Fluorene	330	670 U
4-Chlorophenyl-phenylether	330	670 U
4-Nitroaniline	830	1700 U
4,6-Dinitro-2-methylphenol	830	1700 U
N-Nitrosodiphenylamine (1)	330	670 U
4-Bromophenyl-phenylether	330	670 U
Hexachlorobenzene	330	670 U
Atrazine	330	670 U
Pentachlorophenol	830	1700 U
Phenanthrene	330	300 J
Anthracene	330	670 U
Carbazole	330	36 J
Di-n-butylphthalate	330	40 J
Fluoranthene	330	510 J
Pyrene	330	450 J
Butylbenzylphthalate	330	670 U
3,3'-Dichlorobenzidine	330	670 UJ
Benzo(a)anthracene	330	170 J
Chrysene	330	360 J
bis(2-Ethylhexyl)phthalate	330	150 J
Di-n-octylphthalate	330	670 U
Benzo(b)fluoranthene	330	380 J
Benzo(k)fluoranthene	330	360 J
Benzo(a)pyrene	330	220 J
Indeno(1,2,3-cd)pyrene	330	170 J
Dibenzo(a,h)anthracene	330	67 J
Benzo(g,h,i)perylene	330	220 J
DILUTION FACTOR:		1.0
DATE SAMPLED:		06/22/04
DATE EXTRACTED:		06/23/04
DATE ANALYZED:		07/01/04
% MOISTURE:		51

* - Result reported from diluted analysis.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 8
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - MEDIUM LEVEL
µg/kg

SAMPLE NUMBER:		D15538	D15539
SAMPLE LOCATION:		SO-01	SO-02
LABORATORY NUMBER:		576606	576607
COMPOUND	RL		
alpha-BHC	50	52 U	66 U
beta-BHC	50	52 U	66 U
delta-BHC	50	52 U	66 U
gamma-BHC (Lindane)	50	52 U	66 U
Heptachlor	50	52 U	66 U
Aldrin	50	52 U	66 U
Heptachlor Epoxide	50	52 U	66 U
Endosulfan I	50	52 U	66 U
Dieldrin	100	100 U	130 U
4,4'-DDE	100	100 U	130 U
Endrin	100	100 U	130 U
Endosulfan II	100	100 U	130 U
4,4'-DDD	100	100 U	130 U
Endosulfan Sulfate	100	100 U	130 U
4,4'-DDT	100	100 U	130 U
Methoxychlor	500	520 U	660 U
Endrin Ketone	100	100 U	130 U
Endrin Aldehyde	100	100 U	130 U
alpha-Chlordane	50	52 U	66 U
gamma-Chlordane	50	52 U	66 U
Toxaphene	5000	5200 U	6600 U
Chlorodane	500	520 U	660 U
Aroclor-1016	500	520 U	670 U
Aroclor-1221	500	520 U	670 U
Aroclor-1232	500	520 U	670 U
Aroclor-1242	500	520 U	670 U
Aroclor-1248	500	520 U	670 U
Aroclor-1254	500	520 U	670 U
Aroclor-1260	500	520 U	670 U
DILUTION FACTOR:		1.0	1.0
DATE SAMPLED:		06/22/04	06/22/04
DATE EXTRACTED:		06/25/04	06/25/04
DATE ANALYZED:		06/29/04	06/29/04
% MOISTURE:		3	25

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: JOHN J RILEY
CASE: 0690F SDG: D15538
LABORATORY: SEVERN TRENT LABORATORIES- VERMONT

TABLE 6
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSES - LOW LEVEL
µg/kg

SAMPLE NUMBER:	D15540
SAMPLE LOCATION:	SO-03
LABORATORY NUMBER:	576608

COMPOUND	CRQL		
alpha-BHC	1.7	5.1	J
beta-BHC	1.7	3.5	U
delta-BHC	1.7	3.5	U
gamma-BHC (Lindane)	1.7	3.5	U
Heptachlor	1.7	10	J
Aldrin	1.7		R
Heptachlor Epoxide	1.7	2.1	J
Endosulfan I	1.7	3.5	U
Dieldrin	3.3	6.7	U
4,4'-DDE	3.3	10	J
Endrin	3.3	6.7	U
Endosulfan II	3.3	6.7	U
4,4'-DDD	3.3	6.7	U
Endosulfan Sulfate	3.3	6.7	U
4,4'-DDT	3.3	66	J
Methoxychlor	17	35	U
Endrin Ketone	3.3	6.7	U
Endrin Aldehyde	3.3	4.0	J
alpha-Chlordane	1.7	5.5	J
gamma-Chlordane	1.7	6.4	J
Toxaphene	170	350	U
Aroclor-1016	33	67	U
Aroclor-1221	67	140	U
Aroclor-1232	33	67	U
Aroclor-1242	33	67	U
Aroclor-1248	33	67	U
Aroclor-1254	33	67	U
Aroclor-1260	33	67	U

DILUTION FACTOR:	1.0
DATE SAMPLED:	06/22/04
DATE EXTRACTED:	06/23/04
DATE ANALYZED:	06/28/04
% MOISTURE:	51

* - RESULT REPORTED FROM DILUTED ANALYSIS.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

DATA SUMMARY KEY
INORGANIC DATA VALIDATION

J	=	The associated numerical value is an estimated quantity.
R	=	The result is rejected due to gross deficiencies in quality control criteria. The result is unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.
U	=	The compound was analyzed for but not detected. The associated numerical value is the SDL or the adjusted SDL.
UJ	=	The compound was analyzed for but not detected. The associated numerical value is the estimated SDL.

ACRONYM LIST
INORGANIC DATA VALIDATION

AQ	aqueous
°C	degrees Celsius
CCV	Continuing Calibration Verification
CLP	Contract Laboratory Program
COC	Chain-of-Custody record
Conc.	Concentration
CRDL	Contract Required Detection Limit
CRI	CRQL Standard for ICP
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
%D	percent difference
DAS	Delivery of Analytical Services
DC	Document Control
DQO	Data Quality Objective
DV	Data Validation
DW	drinking water
GW	groundwater
Cr+6	Hexavalent Chromium
IC	Ion Chromatography
ICP-MS	Inductively Coupled Plasma - Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
kg	kilogram
L	liter
LCS	Laboratory Control Sample
MDL	Method Detection Limit
mg	milligram
MS	Matrix Spike
MSA	Method of Standard Additions
NA	not applicable
ND	non-detected result
ORP	Oxidation Reduction Potential
PE	Performance Evaluation
Pos	positive result
QC	Quality Control
%R	percent recovery
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SDL	Sample Detection Limit
SOW	Statement of Work
S/S	soil/sediment
START	Superfund Technical Assessment and Response Team
SW	surface water
SW-846	EPA Test Methods for the Evaluation of Solid Waste
TAL	Target Analyte List
TCL	Target Compound List
µg	microgram
WESTON	Weston Solutions, Inc.

SITE: JOHN J RILEY
CASE: 0692F SDG: D15538
LABORATORY: LAUCKS TESTING LABORATORIES

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:	D15538	D15539	D15540
SAMPLE LOCATION:	SO-01	SO-02	SO-03
LABORATORY NUMBER:	0406321-01	0406321-02	0406321-03
PERCENT SOLIDS:	97.8	66.9	59.7

INORGANIC ANALYTES	METHOD	METHOD DETECTION LIMITS (mg/kg)				CONTRACT QUANTITATION LIMITS (mg/kg)
ALUMINUM	P	25.9	323 J	167 J	2470 J	20
ANTIMONY	P	0.44	0.90 UJ	7.0 UJ	R	6
ARSENIC	P	0.80	1.8 UJ	0.95 UJ	1.4 UJ	1
BARIUM	P	0.11	42.6 J	5.7 J	112 J	20
BERYLLIUM	P	0.14	0.15 UJ	0.58 UJ	0.71 UJ	0.5
CADMIUM	P	0.14	0.27 U	0.58 U	0.93 U	0.5
CALCIUM	P	3.9	1140 J	1170 J	2840 J	500
CHROMIUM	P	0.79	310 J	286 J	49000 J	1
COBALT	P	0.13	0.35 U	0.36 U	R	5
COPPER	P	0.16	102	5.3	69.5	2.5
IRON	P	1.9	706 J	6940 J	6320 J	10
LEAD	P	0.58	151 J	10.4 J	637 J	1
MAGNESIUM	P	1.1	179	73.8	488 J	500
MANGANESE	P	0.13	8.1 J	168 J	232 J	1.5
MERCURY	CV	0.005	2.4	0.095 J	0.57	0.1
NICKEL	P	0.14	1.5	0.65 U	8.9	4
POTASSIUM	P	1.9	28.7	225	404	500
SELENIUM	P	0.57	1.3 U	2.3 U	2.3 U	3.5
SILVER	P	0.13	0.50 UJ	1.2 UJ	0.38 UJ	1
SODIUM	P	34	419 U	97.6 U	710 U	500
THALLIUM	P	0.85	2.1 UJ	2.9 UJ	3.6 UJ	2.5
VANADIUM	P	0.07	1.4 J	2.6 J	109 J	5
ZINC	P	1.1	47.1 J	66.5 J	8.5 UJ	6
CYANIDE	AS	0.08	3.3	31.5	9.0	2.5

ANALYTICAL METHOD
P - ICP
CV - COLD VAPOR
AS - SEMI AUTOMATED SPECTROPHOTOMETRIC

NOTE:
J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U = VALUE IS NON-DETECTED.
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R = VALUE IS REJECTED.
NA = NOT ANALYZED.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

ATTACHMENT C

JOHN J RILEY

PHOTOGRAPH LOG
START

Photographs taken 30 April 2004 and 22 June 2004

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-01A through SD-01C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks/right-of-way and the northeastern section of the former John J. Riley site. Note stormwater drainage culvert running under the MBTA railroad tracks in the center and background of photograph. The photograph was taken facing northeast.

FRAME NUMBER: 1 **DATE:** 30 April 2004 **TIME:** 0938 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-01A through SD-01C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The photograph was taken facing north-northeast.

FRAME NUMBER: 2 **DATE:** 22 June 2004 **TIME:** 1539 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 310

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-02A through SD-02C, located west of chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The photograph was taken facing north-northeast. Note proposed sample locations SD-01A through SD-01C in the background.

FRAME NUMBER: 3 **DATE:** 30 April 2004 **TIME:** 0938 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-02A through SD-02C, located west of chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The photograph was taken facing east.

FRAME NUMBER: 4 **DATE:** 22 June 2004 **TIME:** 1537 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 310

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-03A through SD-03C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The sample location is located in the immediate vicinity of a former production well house (brick structure) located on the John J. Riley site. The photograph was taken facing southeast.

FRAME NUMBER: 5 **DATE:** 30 April 2004 **TIME:** 0939 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-03A through SD-03C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The sample location is located in the immediate vicinity of a former production well house (brick structure) located on the John J. Riley site. The photograph was taken facing southeast.

FRAME NUMBER: 6 **DATE:** 22 June 2004 **TIME:** 1535 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 310

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-04A through SD-04C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The photograph was taken facing southeast.

FRAME NUMBER: 7 **DATE:** 30 April 2004 **TIME:** 0941 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-04A through SD-04C, located adjacent to (west of) the chain-link fence separating the MBTA railroad tracks and the northeastern section of the former John J. Riley site. The photograph was taken facing north.

FRAME NUMBER: 8 **DATE:** 22 June 2004 **TIME:** 1533 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-05A through SD-05D and SD-06A through SD-06D, located in the stormwater detention pond located north of the Organix building on the John J. Riley site. The photograph was taken facing southeast.

FRAME NUMBER: 9 **DATE:** 30 April 2004 **TIME:** 1017 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-05A through SD-05B and SD-06A through SD-06C, located in the stormwater detention pond located north of the Organix building on the John J. Riley site. The photograph was taken facing southeast.

FRAME NUMBER: 10 **DATE:** 22 June 2004 **TIME:** 1547 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100

SCENE: View of proposed sample location SD-07, located in the area of exposed solid waste on a slope in the northern portion of the John J. Riley site. The photograph was taken facing north.

FRAME NUMBER: 11 **DATE:** 30 April 2004 **TIME:** 0952 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample location SD-07, located in the area of exposed solid waste on a slope in the northern portion of the John J. Riley site. The photograph was taken facing northwest.

FRAME NUMBER: 12 **DATE:** 22 June 2004 **TIME:** 1516 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SD-08 and SD-09, located at the edge/base of the area of exposed solid waste, in the vicinity of the stormwater drainage ditch in the northern portion of the John J. Riley site. The photograph was taken facing east-northeast.

FRAME NUMBER: 13 **DATE:** 30 April 2004 **TIME:** 0958 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SD-08 and SD-09, located at the edge/base of the area of exposed solid waste, in the vicinity of the stormwater drainage ditch in the northern portion of the John J. Riley site. The photograph was taken facing northwest.

FRAME NUMBER: 14 **DATE:** 22 June 2004 **TIME:** 1525 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample locations SO-01 and SO-02, located at the edge/base of the area of exposed solid waste, in the vicinity of the stormwater drainage ditch in the northern portion of the John J. Riley site. Sample locations were proposed to be collected from a black sludge/hardened tar-like material. The photograph was taken facing north.

FRAME NUMBER: 15 **DATE:** 30 April 2004 **TIME:** 0953 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of sample locations SO-01 and SO-02, located at the edge/base of the area of exposed solid waste, in the vicinity of the stormwater drainage ditch in the northern portion of the John J. Riley site. Samples were collected from a black sludge/hardened tar-like material was observed to be seeping out of a drum carcass. The photograph was taken facing north.

FRAME NUMBER: 16 **DATE:** 22 June 2004 **TIME:** 1453 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100

PHOTOGRAPHY LOG SHEET
John J. Riley Site ● Woburn, MA

SCENE: View of proposed sample location SO-03, located in the area of exposed solid waste (such as leather hide scraps) along a slope in the northern portion of the John J. Riley site. The photograph was taken facing northwest.

FRAME NUMBER: 17 **DATE:** 30 April 2004 **TIME:** 1000 hours
PHOTOGRAPHY BY: Timothy Benton **CAMERA:** Nixon CoolPix 3100

SCENE: View of composite leather sample location SO-03, located in the area of exposed solid waste along a slope in t he northern portion of the John J. Riley site. The photograph was taken facing west.

FRAME NUMBER: 18 **DATE:** 22 June 2004 **TIME:** 1522 hours
PHOTOGRAPHY BY: Jessica Burkhamer **CAMERA:** Nixon CoolPix 3100